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<pre>TITLE Prediction of the coding sequences of unidentified human genes. XV. Db True reduction of the coding sequences of unidentified human genes. XV. Db for large proteins in vitro JOURNAL DNA Res. 6 (5), 337-345 (1999) MEDLINE 20039619 ADTINE 20039619 AUTHORS 0hara,0., Nagase,T. and Kikuno,R. AUTHORS 0hara,0., Nagase,T. and Kikuno,R. AUTHORS Direct Submission JOURNAL Submitted (04-00T-1999) Geamu Ohara, Kazusa DNA Research Institute, Db JOURNAL Laboratory of DNA Technology; 1532-3 Yana, Kisarazu, Chiba</pre>	292-0812, Japan (E-mail:cGhainto@kazusa.or.jP, URL:http://www.kazusa.or.jp/huge/, Tel:+81-438-52-3913, Pax:+81-438-52-3914) PEATURES 1. 33145 1. 3144 Ab zref="Homo sapiens" /clone="hh00149a" /clone="hh00149a"	/close_Type="brain" /close_Tib="pBluescriptII SK plus" gene /close_Tib="pBluescriptII SK plus" /gene="KTAA1246" /gene="KTAA1246" /sene="KTAA1246" /note="Start codon is not identified." /proden_terter1 /proden_terter1" /proden_terter1	(db xref="G1:63:063" (db xref="G1:63:063:0633" (cb xref="G1:63:063:0635" (cb xref="G1:63:063:0635") FTLJGGLAFGMAPYUAPCRYCYCQNISESLGTLFVPPDIDRRTVBLFL (cb xref="G1:63:063:063") FTLJGGLAFLAFGMAPYUAPCRYCYCQNISESLGTLFVPPDIDRRTVBLFL (cb xref="G1:63:063:063") FTLJGGLAFLAFUDI-TUSTVATSHIOFFFLUESJRSLHDDRRVLPSLGE (cb xref="G1:63:063:063") FTLJGGLAFLAHLINLAGTPADLQKLARIDI-TELEDUDLSYNNLHDELGE (cb xref="G1:63:063") PQLSLDHNLLDHIARGTPADLQKLARIDI-TELEDUDLSYNNLHDELGEWDSYRRWNL (cb xref="G1:63:063") PQLSLDHNLLDHIARGTPADLQKLARIDI-TELEDUDLSYNNLHSELGE (cb xref="G1:63:063") PQLSLDHNLLDHIARGTPADLQKLARIDI-TELEDUDLSYNNLHSELGEWDSYRRWNL (cb xref="G1:63:063") PQLSLDHNLLDHIARGTPADLQKLARIDI-TELEDUDLSYNNLHSELGEWDSYRRWNL (cb xref="G1:63:063") PQLSLDHNLLDHIARGTPADLQKLARIDI-TELEDUDLSYNNLHSELGEWDSKTGRFPADL (cb xref="G1:63:063") PLSEPSGREPKENDLKCKAIOPDELGGENARUNCKLEPPDFILEWORSTATTPANING (cp xref="G1:63:063") PLSESSTAGGEPPKSLDFKCFLAMUDTATTATTATIANUNCCAOPERUL (cp xref="G1:63:063") PRAGGSGGEDPFKSLDFKCFLAMUDTATTATTATIANUNCCAOPERUL (cp xref="G1:63:063") PRAGGSGGEDPFKSLDFKLANGELFLARKSSSSSSSSSSSSSSSSSSSSCGG (cp xref="G1:63:053") PRAGGSGGEDPFKSLDFKVCKANGELFLARKSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSSS	0; 0;	rcg 60 60 GGT 120 GGT 120 GGT 120	TCTTCGATCCGGAAAATCCTACCGGCATCCTCTGGGGGGGG	360

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	<pre>/note="MIR repeat: matches 78256 of consensus" repeat_region /note="MER33 repeat: matches 3324 of consensus" /note="S2030 repeat_region 2017720290 2017720290 repeat_region /note="MIR repeat: matches 35115 of consensus" /note="serected" 208852945 misc_feature 227882945 /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_experimental /note="not_expose 5 mer ag 67% conserved" /note="s3.2511 /note="s</pre>	region 26339. region 26333. /notce="" region 27107." region 27107." region 27107." region 28712." region 28712." region 29265. region 7,0000." region 7,0000." region 7,0000." region 7,0000."	repeat_region 31122. 31173 repeat_region 716="26 copies 2 mer tg 71% conserved" 700te="26 copies 2 matches 103. 190 of consensus" 700te="MLT11 repeat: matches 103. 190 of consensus" 700te="MLT11 repeat: matches 103. 190 of consensus" 700te="MLR repeat: matches 3. 249 of consensus" 700te="MLR repeat: matches 3. 249 of consensus" 700te="MLR repeat: matches 14. 262 of consensus" 700te="MLR repeat: matches 14. 262 of consensus" 700te="MLR repeat: matches 254. 2449 of consensus" 700te="L2 repeat: matches 2059. 2672 of consensus" 700te="L2 repeat: matches 2059. 2577 of consensus" 700te="MLR repeat: matches 2. 257 of consensus" 700te="MLR repeat: matches 2. 257 of consensus" 700te="MLR repeat: matches 2. 255 of consensus" 700te="MLR repeat: matches 22. 255 of consensus" 700te="MLR repeat: matches 22
-	regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest. The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em:, EMBL, Swi, SWISSPROT; Tr:, TREMBL, WP:, WORMPEP; Information on the WORMPEP database can be found at http://www.sanger.ac.uk/Projects/C elegans/wormpep This sequence was generated from part of bacterial clone contigs of human was generated from the library RPC1-11.2 constructed by the group foroup. Further information can be found at http://www.sanger.ac.uk/HGP/Chr6 http://www.san	<pre>source /</pre>	

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<pre>: matches 4188 matches 2103 c at: matches 5903. : matches 8228 t: matches 1394 t: matches 5112c : matches 5112c : matches 20245 2 mer gt 66% conse</pre>	<pre>on 41737: 42201</pre>	 420 AGCCGGGGGTAGATGCTTGCCTGGCCGGGGGGCTGAGCTGCCCGGCCTGCT [1] 1] 1] 1] 1] 1] 1] 1] 1] 1] 1] 1] 1] 1	CCTGCAGCACCTTATCGTGAACAACAACCAGCTGGGGGGGG
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REFERENCE AUTHORS JOUTULE JOUTULE AUTHORS AUTHORS COMMENT COMMENT	<pre>Bukaryots Metasos (fordats Craniats Vertebrats Enteleostomi, Bukaryots Metasos (fordats Craniats Vertebrats Enteleostomi, Manias Entitists Prints (10,1992) Birren E. Linton, L. Musham C. and Lander E. Allen N. Mnderen M. Birren E. Linton, L. Musham C. Hander, E. Allen N. Mnderen M. Birren E. Linton, Colangelo N. Collins, S. Collymer, A. Mon sagin, J. Bertels, A. Colangelo N. Collins, S. Collymer, A. Mushama, C. Johnson, P. Ones, C. Mano, M. Collins, S. Collymer, A. Mushama, C. Johnson, P. Ones, C. Mano, M. Mathu, Manano, Y. Gartes, M. Perret, C. Funke, M. Gageller, E. Monano, M. Medurk, M. Perret, C. Mano, M. Mathu, Manano, Y. Gartes, M. Metari, M. Collins, S. Collymor, A. Manano, M. Medurk, M. Perret, C. Manu, Mathu, Metany, M. Medurk, M. Metari, M. Manu, M. Manano, Y. Macuk, M. Mathu, M. Manu, M. Manano, Y. Macuk, M. Mathu, M. Manu, M. Manano, Y. Macuk, M. Mathu, M. Manano, Y. Mathu, M. Metari, M. Wasiliku M. Karaka, M. Medurk, M. Mathu, M. Manano, Y. Mathu, M. Mathu, M. Mathu, M. Medurk, M. Mathu, M. Maraka, Y. Sono this sequence wathington and Mathu Mitpi, M. Yaka, Mathu Mitpi, M. Wasiliku, M. Yaka, Mathu Mitpi, M. Sono this sequence wathington and Mathu Mitpi, M. Wasiliku, M. Yaka, Mathu Mitpi, M. Mathu, Mathu Mitpi, M. Wasiliku, M. Yaka, Mathu Mitpi, M. Wasiliku, M. Wasiliku, M. Mathu Mathu Mitpi, M. Wasiliku, M. Wasiliku, Mathu Mitpi, M. Wasiliku, M. Mathu Mathu Mitpi, M. Wasiliku, Mathu Mat</pre>	<pre>vrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr</pre>
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91178 chrcheicharhricheichtrichtertichtedachtradadsettesettesettesetet 91237 91117 91177 90937 90997 725 785 786 TGACAGCAATCGGCTGCCAAGCCTTGGGGGGGGGGGGCCCCGGGGGGCCTGGTCAACCTGCA 845 ö 665 485 545 605 91118 rescessárákértírésérakértérésérestestesztéréséreséreséres 666 CAGCGGCCAGGACTTTGCCCAACATGACGGGGGCTGGTGGACCGCTGTCCAGGAACAC CATCAGCCACATCCAGCCCTTTTCCTGGACCTCGAGAGCCTCCGCTCCGCTGCATCT 606 CCCTGATATTGACCGGCGGACAGTGGAGCTGCGCCCTGGGCGGCCAACTTCATCATCCACAT 90878 GIGTCTTTTTCCAGGTGCAGAGGCTGAGTGAGTGAGCCATGGAGAGCTCTGCTGGTGG 486 CCTGCTAGCGTTTGGCGTTTTGCCGTGGTCGACGCCTGCCCCAAGTACTGTCTG 546 CCAGAANCTIGAGTICACTIGGGGGACCCTIGTGCCCCCTCCAAGGGGGCTGCTTTTTGTACC 426 GGGTAGATGCCTCGCCCAGGCGCTGAGTGACCAGACCATGGAGACCCTGCTTGGTGG Gaps Length 159443; ;0 1902 others Indels Score 1166.6; DB 2; Pred. No. 2e-192; 0; Mismatches 199; 1 'clone_lib="RPCI-24 Male Mouse BAC" note="assembly_fragment" 36746 c 35340 g 43731 t ote="assembly_fragment" 8534. 159443 note="assembly_fragment" note="assembly_fragment" hote="assembly_fragment" hote="assembly_fragment" note="assembly_fragment' 3370. .9416 /note="assembly_fragment" 4054. 16946 /note="assembly_fragment" 2711. 25193 hote="assembly_fragment" lote="assembly_fragment' 'note="assembly_fragment" note="assembly_fragment" 'note="assembly_fragment" note="assembly_fragment' . 1129 note="assembly_fragment" note="assembly_fragment" 362. .3703 note="assembly_fragment" note="assembly_fragment" note="assembly_fragment' .118433 .28313 . .50334 0435. .66250 Query Match 37.1%; Best Local Similarity 86.6%; Matches 1286; Conservative (2610 9932 .78871 13953 .12017 804. 5915 5016. .8269 18534. 5294 12118. 010 0169 828 5500 351 BASE COUNT 41724 a misc_feature 726 g qq δ q 8 8 q δ g 8 q δ S arbitrary. Gaps between the contrigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved. NOTE: This is a 'working draft' sequence. It currently consists of 20 contigs. The true order of the pieces is not known and their order in this sequence record is Center clone name: 1/0_9_42 Sequencing vector: Plasmid; n/a; 100% of reads Sequencing vector: Plasmid; n/a; 100% of reads Chemistry: Dye-terminator Big Dye: 100% of reads Assembly program: Phrap; version 0.960731 Assembly program: Phrap; version 0.960731 Consensus quality: 155716 bases at least Q40 Consensus quality: 155716 bases at least Q30 Consensus quality: 155716 bases at least Q20 Insert size: 157000; agarose-fp Insert size: 157000; agarose-fp Quality coverage: 7.8 in Q20 bases; sum-of-contigs Quality coverage: 7.8 in Q20 bases; sum-of-contigs http://ftp.genome.washington.edu/RM/RepeatMasker.html p of 100 bp contig of 39462 bp in length bp in length Center code: WIBR Web site: http://www.seq.wi.mit.edu Web site: equence submissions@genome.wi.mit.edu Contact: sequence submissions@genome.wi.mit.edu 66251 66350: gap of 100 bp 66351 78871: contig of 12521 bp in length p of 100 bp contig of 10302 bp in length 0335 50434: gap of 100 bp 0435 66250: contig of 15816 bp in length 24: gap of 100 bp 39932: contig of 8108 bp in length 0 bp 3022 bp in length 10: gap of 100 bp 25193: contig of 2483 bp in length o of 100 bp contig of 3020 bp in length 13: gap of 100 bp 31724: contig of 3311 bp in length 53: gap of 100 bp 16946: contig of 2893 bp in length bp in length p of 100 bp : contig of 2501 bp in length contig of 1836 bp in length 100 bp of 2112 bp in length 1129: contig of 1129 bp in length 100 bp f 1032 bp in length 100 bp f 1342 bp in length 100 bp of 1047 bp in length 2254 bp in length đq contig of 40910 68: gap of 100 bp 22610: contig of 2442 b 100 bp 100 bp 100 /organism="Mus musculus' 20068: contig of 3 /db_xref="taxon:10090" /clone="RP24-176G22" 262 2361: gap of 10 2562 3361: gap of 0f 704 3803: gap of 10 804 5915: contig of 6015: gap of 1(8269: contig of contig of contig of project name: L17407 Location/Qualifiers ປະຊ: gap of 50334: con⁺໋ 3^ 118434 118533: gap of 118534 159443: conti 18872 78971: gap of 18433: cont clone name: 176 6: gap of 12017: con' gap of 2018 12117: gap of gap of 416: cor 1130 1229: gap of 1230 2261: co 13953: 9416: .159443 31824: 2611 22710: 40032: 25293: 8314 28413: 3954 14053: 17046: 20168: 8369: 9516: 78972 20069 1825 5194 9417 9517 916 6947 7047 0169 0033 28414 2362 4054 Center source FEATURES

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Page 10

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<pre>Db 92318 GTGAGCGAGGGTAGCGTGGGGGGGGGGGGGGGGGGGGGG</pre>	COMMENT On Jun 25, 2002 this sequence version replaced gi:21126723. Center code: WIGSC Weshingcon University Genome Sequencing Center code: WIGSC Web site http://Genome.wustl.edu/gsc/index.shtml Center code: WIGSC Web site http://Genome.wustl.edu/gsc/index.shtml Center code: WIGSC Web site http://Genome.wustl.edu/gsc/index.shtml Center code: WIGSC Web site code: WIGSC Web site code Center project name: M_BAD12318 Center project name: M_BAD12318 Center project name: W_BAD12319 Center project name: W_BAD12319 Center project name: W_BAD12319 Center project name: W_BAD12918 Center project name: W_BAD12918 Sequencing vector: W11) Sequencing vector: W11) ON Sequencing vector: M1200 Sequencing vector: M1200 Center size: 211000 Sequencing vector: M1200 Consensus quality: 239788 bases at least Q30 Consensus quality: 239788 bases at least Q30 Consensus quality: 239788 bases at least Q30 Consensus quality: 239788 bases at least Q30 Consensus quality: 239788 bases at least Q30 Consensus quality: 239788 bases at least Q30 Consensus quality: 239788 bases at least Q30 Consensus quality: 239788 bases at least Q30 Consensus quality: 239788 bases at least Q30 Consens
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	DB 2/1110 TGTGTCGAAGATGTTACCACCACTGTGGCGTGAGGGGGGGG		RESULT 7 ACIS5047/c ACI35047 LOCUS ACI35047 ACI35047 308013 bp DNA linear HTG 29-JUL-2002 DEFINITION Mus. musculus chromosome UNK clone RP23-354G14, WORKING DRAFT		ISM CE RS	JILL IN SEGURAL Unpublished JURNAL Unpublished REFERENCE 2 (bases 1 to 308013) AUTHORS MCPherson, J.D. and Waterston, R.H. TTTLE Direct Submission JOURNAL Submitted (20-UTN-2002) Genome Sequencing Center, 4444 Forest Park	Parkway, St. Louis, MO 63108, USA REFERENCE 3 (bases 1 to 308013) AUTHORS McPherson,J.D. and Waterston,R.H. TITLE Direct Submission JOURNAL Submitted (29-010-202) Genome Sequencing Center, 4444 Forest Park Parkway, St. Louis, MO 63108, USA	COMMENT On Jul 29, 2002 this sequence version replaced gi:21490485. 	Contact: submissions@watson.wustl.edu Project Information Center project name: M_BA0354G14 	Sequencing vector: M13, 0% Sequencing vector: M13, 0% Sequencing vector: plasmid; 100% Chemistry: Dye-primer ET; 0% of reads Chemistry: Dye-terminator B19 Dye; 100% of reads Assembly program: Phrap; version 0.990319 Consensus quality: 303857 bases at least 040 Consensus muslity: 303857 bases at least 040	Consensus quality: 306387 bases at least Q20 Insert size: 196000; agarose-fp Insert size: 307413; sum-of-contigs Quality coverage: 0.00 in Q20 bases; agarose-fp Ouality coverage: 9.67 in Q20 bases; sum-of-contigs	 NOTE: This is a 'working draft' sequence. It currently NOTE: This is a 'working draft' sequence. It currently consists of 7 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary Gap between the contigs are represented as runs of N. but the exact sizes of the gans are unknown 	 This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved. 1 12436: contig of 12436 bp in length 12437 12536: gap of unknown length 	 12537 40835: contig of 28299 bp in length 40836 40935: gap of unknown length

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> 25042 24982 1805 1865 DNA linear HTG 19-JUL-2002 *** SEQUENCING IN PROGRESS ***, 25102 25282 25222 1685 1745 1625 25582 1565 25462 1505 25642 1265 25522 1385 1445 1145 1205 1325 1026 CATCGCCGAGGGCACCTTGCAGACCTGCAGAAACTGGCCCGCCTGGATCTCACCTCCAA 1085 1746 TETETCTGAAGTGACCACCACCTCGGCCCTGGTCAAGTGGTCTCTCAGCAAGTCAGCACC 1806 CCGGGTGAAGATGTACCAGCTGCAGTACAACTGCTGTGAGGTAGGGTACTGATTTACAG GGGAGGGGGGGGGGGGGGGGGGGGGGGGGGGCCCCCAAAAGCACCCCAGAGGGGCTGTGCT
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus norvegicus ORGANISM

Rattus. REFERENCE AUTHORS

XCE 1 (bases 1 [co 197893) MIZTRY, DN, Adams, C., Adio-Oduola, B., Ali-osman, F.R., Allen, C., MIZTRY, DN, Amarzaturge, H.C., Are, J.R., Myele, M., Barks, T., Barbaria, J., Bentcon, J., Binage, K., Birown, E., Brown, M. Bryant, N.P., Barbaria, J., Bentcon, J., Binage, K.C., Burrell, K.L., Byrd, N.C., Buhay, C., Burket, C., Burrell, K.L., Byrd, N.C., Buhay, K.R., Deng, T.C., Cowdhry, T., Christopoulos, C., Buhay, K.R., Dawy-Garroll, J., Dederich, D.A., Cleveland, ClD., Cox, C., Coyle, M.D., Dathorne, S.R., David, R., Davila M.L., Davis, C., Dawy-Cartoll, L., Dederich, D.A., Davila M.L., Davis, C., Dawy-Cartoll, J., Dederich, D.A., Davila M.L., Davis, C., Dawy-Cartoll, J., Dederich, D.A., Davila M.L., Davis, C., Dawy-Cartoll, J., Dederich, D.A., Davila M.L., Davis, C., Coyle, M.D., Dathorne, S.R., David, R., Davila M.L., Davis, C., Dawy-Cartoll, J., Dederich, D.A., Davila M.L., Davis, C., Coyle, M.D., Dathorne, S.R., David, R., Dathart, C., Eqgar, D., Flager, M., Dugan-Rocha, S., Durbin, K.J., Barnhart, C., Harris, K., Hart, M., Havlak, F., Hala, S., Hamilton, K.J., Gorrell, J. H., Guevara M., Gunaratne, P., Hawes, A., Hernandez, J., Hernandez, O., Harris, K., Hart, M., Havlak, F., Hawes, A., Hernandez, J., Hernandez, O., Manson, R., Hogue, M., Hollowy, C., Hollins, B., Hernandez, O., Manson, R., Hogue, M., Haves, A., Hernandez, J., Harris, C., Marris, K., Martin, K., Murs, L.C., Lewis, L., Jacobson, B., Kelly, S., Mubar, J., Luky, S., Hube, J., Jouka, S., Marsebwari, M., Mapu, P., Martin, R., Martinez, F., Mabeshari, M., Mayu, M., Martin, R., Martinez, K., Marseby, E., Manhiry, L., Morabak, K., Morgan, M., Morris, S., Mansey, E., Manhirey, E., McHeod, M., Martin, K., Marsey, E., Manhirey, E., McHeod, M., Martin, R., Martinez, K., Marsey, E., Manhirey, E., McHeod, M., Martin, R., Martinez, K., Marsey, E., Manhirey, E., McHeod, M., Martin, R., Martinez, K., Marsey, S., Mantiney, E., Martin, R., Martin, R., Martinez, K., Marsey, S., Manhirey, E., Marsen, S., Ouduf, S., Recters, A., Rooz, J., Nauken, S., Ouduk, NOTE: Estimated insert size may differ from sequence length
 (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html)
 NOTE: This is a 'working draft' sequence. It currently
 consists of 63 contigs. The true order of the pieces current content c Chemistry: Dye-terminator Big Dye: 100% of reads Assembly program: Phrap; version 0.990329 Accenseives quality: 143066 bases at least 040 Consensus quality: 151342 bases at least 030 Consensus quality: 157286 bases at least 020 Center: Baylor College of Medicine Center code: BCM Web site: http://www.hgsc.bcm.tmc.edu/ ---- Project Information Contact: hgsc-help@bcm.tmc.edu Sequencing vector: Plasmid; Center project name: GXPO Center clone name: CH230-5008 (bases 1 to 197893) Direct Submission Unpublished Direct Submission Worley, K.C.

TITLE JOURNAL REFERENCE

AUTHORS TITLE JOURNAL

COMMENT

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<pre>67697: gap of unknown 71010: contig of 3313 71110: gap of unknown 73199: contig of 1989 73199: contig of 1989 73199: gap of unknown 7659: gap of unknown 7928: contig of 3529 7928: gap of unknown 82350: gap of unknown 85337: contig of 3328 85321: contig of 1358 85321: contig of 13195</pre>	unknown length len unknown length length len unknown length len unknown length len unknown length length len unknown length le	Query Match36.6%;Score 1151.4;DB 2;Length 197893;Best Local Similarity86.6%;Pred. No. 8.5e-190;Matches 1269;Conservative0;Matches 1269;Conservative0;Mismatches 196;Indels0;Gaps0;Oy426GGGTAGATGCTCCCCCGGGGGGGGGGGGGGGGGGGGGGG
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Db 44267 CAGGGTGAAGATGTATCAGCTGCAGTACAACTGCTCCGACGAGGTACTGATTTACAG 44326 Qy 1866 GATGATCCCAACAAGGGCC 1890 Qb 44327 GTGAGCCAGGGCTGCAGTGGTC 44351	RESULT 9 AC127880/c AC127880 LOCUS AC127880 DEFINITION Ratus norvegicus clone CH230-5008, *** SEQUENCING IN PROGRESS ***, DEFINITION Ratus norvegicus clone CH230-5008, *** SEQUENCING IN PROGRESS ***, ACCESSION AC127880 AC127880 1 G1:21908317 VERSION AC127880 1 G1:21908317	KEYWORDS HTG; HTGS PHASEL. SOURCE Rattus norvegicus. ORGANISM Rattus norvegicus. ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Martis.	REFERENCE 1 (bases 1 to 197893) AUTHORS MUZNY,D.W., Adams.C., Adio-Oduola,B., Ali-osman,F.R., Allen,C., AUTHORS MUZNY,D.W., Adams.C., Adio-Oduola,B., Ayele,W., Banks,T., Alsbrooks,S.L., Amaratunge,H.C., Are,J.R., Ayele,W., Banks,T., Barbaria,J., Benton,J., Bimage,K., Blankenburg,K., Bonnin,D., Bouck,J., Bowie,S., Brieva,M., Brown,E., Brown,M. B., Buuck,J., Burch,P., Burkett,C., Burrell,K.L., Byrd,N.C., Carron,T.F., Carter,M., Cavacos,S.R., Chacko,J., Chavez,D.,	Chen,G., Chen,R., Chen,Z., Cuwury, V., Dathorne,S.R., David,R., Cleveland,C.D., Cox,C., Coyle,M.D., Dathorne,S.R., David,R., Davila,M.L, Davis,C., Davy-Carroll,L., Dederich,D.A., Delaney,K.R., Delgado,O., Denn,A.L., Ding,Y., Durbin,K.J., Delaney,K.R., Draper,H., Dugan-Rocha,S., Durbin,K.J., Douthaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J., Douthaite,K.J., Draper,H., Dugan-Rocha,S., Durbin,K.J.,	<pre>Editation: Ferraguco, D., Flagg, N., Ford, J., Foster, F. Flanc, F., Falls, T., Ferraguco, D., Flagg, N., Ford, J., Garza, N., Gill, R., Gabisi, A., Gao, J., Garcia, A., Garner, F., Hale, S., Hamilton, K., Gorrell, J. H., Guevara, W., Guneratne, P., Hale, S., Hamilton, K., Harris, C., Harris, K., Hart, M., Havlak, P., Hawes, A., Hernandez, J., Hernandez, O., Hodson, A., Hogues, M., Holloway, C., Hollins, B., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, H., Howard, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Hult, S., Hume, J., Jackson, L.E., Homsi, F., Howard, S., Huber, J., Howard, S., Hume, J., Hult, S., Hume, J., Jackson, L.E., Hume, J., Howard, S., Hume, J., Hume, J., Hume, J., Howard, S., Hume, J., Hume,</pre>	Jacobson,B., Jia,Y., JohnBon,F., Vurng,L., Korvah,J., Kovar,C., Karlsson,E., Kelly,S., Kan,U., King,L., Korvah,J., Kovar,L., Kratović,, Kureshi,A., Landry,N., Leal,B., Lewis,L.C., Lewis,L., Li,J., Luj,E., Lichnarge,O., Lieu,C., Liu,J., Luu,W., Loulseged,H., Li,J., Luj,E., Lichnarge,O., Lieu,C., Liu,J., Luu,W., Loulseged,H.,	MaheBhwari, M., Mapua, P., Martin,R., Martindale,N., Mattindale,N., Matting,E., M., Matsker,M., Massey,E., Mawhiney,E., McLeod,M.P., Meddahat,K., Mergan,M., Morris,S., Miner,G., Miner,Z., Mitchell,T., Mchabbat,K., Nguyen,M., Morris,S., Moser,M., Neal,D., NewtSon,J., Newtson,N., Nguyen,M., Okwuon,G. Nguyen,N., Nickerson,E., Nwekehkwo,S., Oguh,M., Okwuon,G. Nguyen,N., Nickerson,E., Nwekehkwo,S., Oguh,M., Okwuon,G.	Oragunye,N., Ovledo,K., Pace,A., Fu,L.L., Quiles,M., Ren,Y., Peters,L., Pickens,R., Primus,E., Pu,L.L., Quiles,M., Ren,Y.G., Rives,M., Rojas,A., Rojuokan,I., Rolfe,M., Ruiz,S., Savery,G., Rives,M., Stojas,A., Shen,H., Shooshtari,N., Sisson,I., Scherer,S., Scott,G., Shen,H., Shooshtari,N., Stone,H., Sodergren,E., Sonaike,T., Sparks,A., Stanley,H., Stone,H., Sutton,A., Svatek,A., Tabor,P., Tamerisa,A., Thomas,N., Thomas,S.,	Tansey.u., taylut.v., vera.v., villalon,D., vinson,R., Wang.Q., Usmani,K., Vasquez.L., Vera.v., Washington,C., Watlington,S., Wang,S., WardaMoore,S., Warren,R., Washington,C., Watlington,S., Williams,G., Williamson,A., Wleczyk,R., Wooden,S., Worley,K., Wu,C., Wu,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D., Wu,C., Wi,Y., Wu,Y.F., Zhou,J., Zorrilla,S., Nelson,D.,	TITLE Direct Submission JOURNAL Unpublished JOURNAL 2 (bases 1 to 197893) REFERENCE 2 (bases 1 to 197893) AUTHORS Worley, K.C. AUTHORS Worley, K.C. AUTHORS Worley, K.C. AUTHORS Worley, M.C. AUTHORS (bases 1 to 197893) AUTHORS Worley, M.C. AUTHORS WORLEY, DEPARTMENT	of Molecular and Human Genetics, Baylor College Baylor Plaza, Houston, TX 77030, USA 	
Db 43187 [DACCGGCTACCTAGCCTTGGGGGGGGGGAGGACACACLCGGGGCGCTTTGGGGGCGCTT 905 ATCGTGAACAACAACCAGCTGGGGGGGGGGGGGGGCGCATGAGGCTTTGGGGGCGTT 905 ATTGTGAACAATAATCAGCTGGGGGGGGGGGGGGGGGGG	 43367 [11] [11] [11] [14] [14] [14] [14] [14]	1026 CF 1026 CF 43487 CF 1086 TC	TGGGLIGGAGAGGGGGGCCCCCTCCTTAGTTTTGGGGGGTAACCCACT AGCCACACCCTTTGCCCCCACCCTTCCTTTAGTTTTGGGGGGGTAACCCACT 1	1206 TTGTGAGCTTCTCTGGCTGGCGGGGGGGGGGGGGGGGGG	GCGGCCAC	1386 ACTCAAGTGCAAAGCCA 43847 TCTTAAGTGCAAGGCCA	0y 1446 CUCUTURATION 111111111111111111111111111111111111	566 GECEACGGCATGGTGGAGGTCTCCATCGTCCAGCTGCCACCC 566 GECCACGGCCATGGTGGAGGTCTCCATCGTCGGCCGCCCCCCCC	<pre>cccccccccccccccccccccccccccccccccccc</pre>	147 G 746 T 207 T	Qy 1806 CCGGGTGARGATGTACCAUCHGUNGTACCAULTAUCAULTAULTAULTAULTAULTAULTAULTAULTAULTAULT

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1407 GGACC		1475 CCGTGCCCG	QY 1527 TGGCUCTICACCIOCATIGCTOCATIGCTOCACCGGGGGGGGGGGCGCGCGGGGGGGGGGGGGGGG	1587 ETECATICATICACTGCCACACCTCAGCAACAGCCGCGCACTGCACCCCCCCAAG	595	1645 TCCCGCCTCTCAGACATCACTGACTCAGACAAGACCAGGGGGGGG	DB 1955 GGAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	Db 1715 CGACACTGGGCCCCCTACCGACCGACGGCGTCCAGGTGACTGAGCACGGGGCC 1766 0v 1765 ACCTCGGCCCTGGTCAAGTGGTCTGTCAGCAAGTCAGCACCCCGGGTGAAGATGTACCAG 1824	1767			Db 1887 CGCTCGTTCCTGCTGACGGACCTGGCGTCAGGACCTACGATCTGTGCGTGC	1947 G	2007 TC	2067 ATGATCATCGCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG	CCACGAGGCCCCCAGAAAAAIGCCAGCCCT 	Qy 2179 GTGAGGAATGTGTACTCGCAGGCGCGAGGCCCAGCCCAG	225	Db 2247 CCCCCGGAGCCCGCGG 2265	RESULT 12 AX266997 AX266997 1887 bp DNA linear PAT 26-OCT-200 LOCUS DEFINITION Sequence 3 from Patent W00172827.	ACCESSION AX266997 VERSION AX266997.11 GI:16515796 KEYWORDS AL266997.11 GI:16515796 ACTIFICE Duman.	SANISM	
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. REFERENCE 1 AUTHORS Glucksmann,M.A. TITLE 33395, a novel human leucine-rich repeat family member and use		source 1. 1887 /organism="Homo sapiens" /db_xref="taxon:9606" 257 a 735 c 579 g 316 t	LIGIN Query Match 20.1%; Score 633; DB 6; Length 1887; Best Local Similarity 61.3%; Pred. No. 7.7e-100; Matches 1078; Conservative 0; Mismatches 665; Indels 16; Gaps 3;	TIGCGGTGGTCGACGCCTGCCAAGTACTGTGTCTGCCAGAATCTGTCTG	567 GGGGACCCTGTGGCCCCTCCAAGGGGCTGCTCTTTGTACCCCCCTGATATTGACCGGCGGGGC 62 123 AAGCGTGCTGTGCCCCAGGGGGCGGCGCTGCTTTGTACCCCCCCGGGAACCGGCGGGGC 62 123 AAGCGTGCTGTTGCCCAGGGGCAGGGCCTCCTTGTTGCGTGCG	627 AGTGGAGCTGCGCCTGGGCGGCGCGCAACTTCATCATCATCACCACGCCGGCGGGGGCTTTGCCAA 68 	687 CATGACGGGGGTGGTGGTGGACCCTGACCAGGAGACACCATCAGCCACTCCAGCCTT 74 687 11111 1111	TTCCTTTCTGGACCTCGGAGAGCCTCCCGGCTGCCTGCGAGCTGCCAAG	807 CCTTGGGGGGGGGGCCCCGGGGCCCTGGTCAACCTGCGGGGGGGG	867 CCAGCTGGGCGGCATCGCGGGAGGCTTTTGGGGACTTCCTGCTGACATTGGAGGATCT 1111111 11111111111111111111111111111	927 GGACCTCTCCTACAACAACCACCCCGGCCGGCGGGGGGGG		1047 AGACCTGCAGAAACTGGCCCGCGCGGGATCTCACCTCCGCCGGCTGCCGGCGGAGGCGCCCCCCCC	bb b03 CGGCCIGCAAGCIGGCCGGGCTGGGGCTTGGGCCGGGCCG	1.67 CTTGTCCTTTAGTTTTGGGGGGTAACCCACTTCACTCGGCGATTGTGGGCCTTCTCGGCGCGGGTAACCCACTTCACTCGGCGCGAATTGTGGGCCTTCTCGGCGGGGAATTGCTGCGCGGGAATTGGCGGCGAATTGGCGGCGAATTGCCGCGGGGAATTGCGCGGGGAATTGGCGGCGAATTGGCGGCGAATTGGCGGCGAATTGCGCGGGGAATTGGCGGCGAATTGGCGGCGAATTGGCGGCGGGAATTGGCGGCGGGGAATTGGCGGCGGGGAATTGGCGGCGGGGAATTGGCGGCGGGGAATTGGCGGCGGGGGAATTGGCGGCGGGGAATTGGCGGCGGGGAATTGGCGGCGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGAATTGGCGGGGGGGG	Qy 1227 GAGGCTCGAGCGGGACGATGACCTGGGAAGCTTGTGGCTCCCAGGGGGGCCTCAGGGTCG 1286

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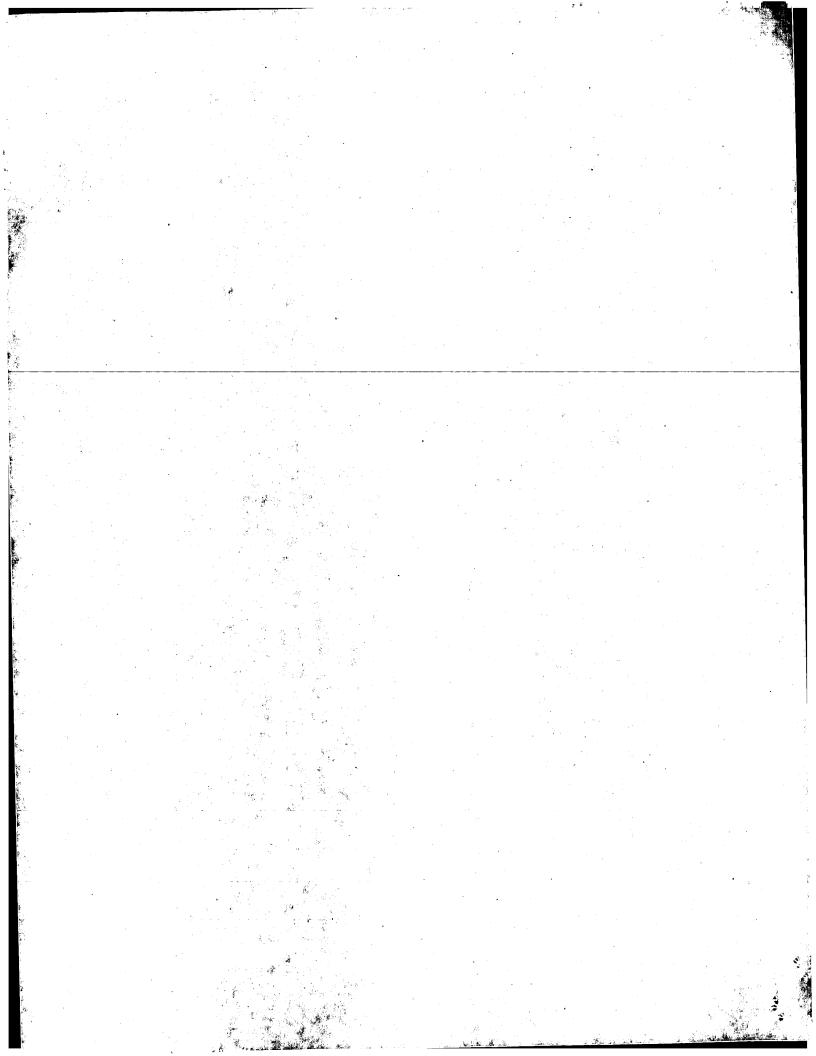
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GenCore version 5.1.6 Copyright (c) 1993 - 2003 Compugen Ltd.	OM nucleic - nucleic search, using sw model	Run on: June 8, 2003, 15:09:17 ; Search time 664 Seconds (without alignments) 10663.076 Million cell updates/sec	Title: US-09-831-846-1 Perfect score: 3144 Sequence: 1 gcctggctcctctgctgagcggctttggattgcttatg 3144	Scoring table: IDENTITY NUC Gapop 10-0, Gapext 1.0	Searched: 2185239 segs, 1125999159 residues	Total number of hits satisfying chosen parameters: 4370478	Minimum DB seq length: 0 Maximum DB seq length: 200000000	Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries	~				0 0 E C	4 U) V	ω - i u	0.0.	<pre>21: /slubs/gcgdata/geneseq/geneseqn=empl/MA2001A.DAT:* 22: /SIDS2/gcgdata/geneseqfgeneseqn-embl/NA2001A.DAT:* 23: /SIDS2/gcgdata/geneseqfgeneseqgn-embl/NA2001B.DAT:* 24: /SIDS2/gcgdata/geneseqfgeneseqn-embl/NA2002.DAT:*</pre>	No. is the number of results predicted by chance to have a	r under of equal to the score of the result ed by analysis of the total score distribu SUMMARIES	Result very No. Score Match Length DB ID Description	· 3144 100.0 3144 21 AAA40083		2/00/2 00.4 2010 22 AA120213 969 30.8 969 23 AA277723 678.9 16 771 22 AA160001	7 634.6 20.2 1887 22 AAH25568 Nucleotide sequenc 8 634.6 20.2 1887 22 AAH78215 Nucleotide sequenc 9 633 20.1 1887 22 AAH78215 Human LRR family m

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Db 3121 GCAAGCGGCTTTGCATTGCTTATG 3144	RESULT 3 AAS44992 ID AAS44992 standard; CDNA; 2818 BP.	XX AC AAS44992; XX DT 18-DEC-2001 (first entry)	cDNA encoding novel human secretory protein, Seq ID No 73		<pre>KW gut protection; lung; liver librosis; numune dericiency; infection; KW severe combined immunodeficiency; SCID; autoimmune disorder; allergy; KW multiple sclerosis; rheumatoid arthritis; diabetes mellitus; asthma; KW fertility; analgesic; pain; antigen; ss.</pre>	OS Homo sapiens. XX PN W0200166689-A2.	PD 13-SEP-2001 XX PF 05-MAR-2001, 2001WO-US04942.	PX 07-MAR-2000; 2000US-0519705. PR 19-MAY-2000; 2000US-0574454. PR 17-JUN-2000; 2000US-0596193.	14-005-2000; 19-SEP-2000; 20-OCT-2000;	PA (HYSE-) HYSEQ INC. PI Tang YT, Liu C, Asundi V, Xu C, Wehrman T, Ren F, Ma Y, Zhou P; PI Zhao QA, Yang Y, Drmanac RT, Zhang J, Chen R, Xue AJ, Wang J;	XX DR WPL; 2001-58934/66. DR P-PSDB; AAU28092. XX	ypeptides from vario leurologica		inflammetory conditions such as archritis, nephritis, Crohn's disease ischaemia-reperfusion injury, shock, sepsis, immune responses, and is involved in increasing haemacopoiesis, stem cell survival, bone grow and remodeling. (1), (11) and modulators of (11) arc useful for		CC peripheral nervous system diseases and neuropather, or central and CC peripheral nervous system diseases and neuropathes, such as Alzheimer's, CC Parkinson's disease, Huntington's disease, and amyotrophic lateral CC sclerosis. In addition, (I) is involved in chemotactic or chemokinetic	
2041 CACAGCCAGATTCTGGGGGGGCACCATGATCCTGGTCGGGGGGCATCATCGTGGCCACG 2100 	<pre>2101 CTGCTGGTCTTCATCGTCATCGTGGTGCGCTACAAGGTCTGCAACGAGGGCCCCC 2160 11111111111111111111111111111111111</pre>	2161 AGCAAGATGGCAGCGGCGTGAGCAATGTGTACTCGCAGCGAGCCAACCAGCGCCCGCC	221 CCTCCAAGCAGCGCCCGGGGGCCCCGCCGCGGGGGGCCCGCGAAGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTG	ctccaagcagcagcagcagcggggggggggggggggggg	2341 TCCCTGGGCAGTGGGGGGGGGGGGGGGGGGGGCCCCTGGAGGATCCCACCCTCC 2400 	2401 GCCCGGGCCCCAGCCCAGCCTTGACCGCCTGATGGGGGGCCTTCGCCTCCGGGACCTC 2460 	2461 AAGAGTCAGAGAAAGGAGGAGCTGCAGACTCCAGGGAGGG	2521 ACGTCGGCCCGGGGCCACCCGACGACGACGCACTGCTGGGGCCCCCTGCGGGCCCGG 2580 	2581 GCCAGGAGCCTGCTCCCTTGCGGTGAGGGCAAAGGCAAAGGCAGCTCCTTCGAC 2640 	2641 ATGGGGGGACTTTGCTGCTGCGGGGGGGGGGGGGGGGGG	2701 CGGAAGGTCTCGAACATCTGGACGAAGCGCAGCCTCTCTGTCAACGGCATGCTCTTGCCC 2760 	1 TTTGAGGAGAGTGACCTGGTGGGGGGGCACCTGGGGGGAGCTCCGAATGGCTGATGGCGGTGATG	2821 GAGAGCACGGTCTAGGTGGGGGTGGGCATGCTCCTTTCCTGTGCGCAGGGTGGGAGAAG 2880 	2881 GGGAAAGAATCTCACTGGCAAGTGTTTGTGGAGTTTCCATGGTGATGTTTACATCAGGG 2940 	2941 ACAGTTTCGTCTCGTGTCATGGCCTCGTGTCCCCCCCTACCCGCGCACCACATCA 3000 	3001 CCTCCCCACCACCGGGCGGGGGGGGGGGGGGGGGGGGCTCGGCTCGGCCGGGCT 3060 	3061 GAGCCCTGAGTGTTTGGAAAGGCGAGACTCCGCCTTTCTAATCACAAATGTAGCCTACAA 3120
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<pre>10.10.10.10.10.10.10.10.10.10.10.10.10.1</pre>	1063 GCCCGCCTGGAA 1046 GCCCGCCTGGAA 1123 GGCTCGCCAGGC 11106 CGCTCCCCAGGC 11106 CGCTCCCAGGC 11116 CGCTCCCAGGC 11183 GGGGGTAACCC 11183 GGGGGTAACCC 11183 GGGGGTAACCC 11183 GGGGGTAACCC 11166 GGGGGTAACCC 11243 GATGACCTGGAG 11243 GATGACCTGGAG 11243 GATCACCTGGAG 11246 GATCACCGGGGAGG 11365 GATTCTGGAGGG 11406 ATTGCTGGAGGG 11406 ATTGCTGGAGGGG 11406 ATTGCTGGCA 11406 ATTGCTGCCA 11406 ATTGCTGCCA 11406 ATTGCTGCCCA 11406 ATTGCTGCCC	
8 8 8 8 8 8 	> > <td></td>	
CC gut protection or regeneration and treatment of lung or liver fibrosis, cc reperfusion injury in various tissues, various immune deficiencies and cc repertusion injury in various tissues, various immune deficiencies and cc disorders including severe combined immunodeficaency (SCID), bacterial or cc fungal infections, autoimmune disorders e.g. multiple sclerosis, cc rheumatoid arthritis, diabetes mellitus, myasthenia gravis, allergic reactions and conditions, such as asthma or other respiratory problems. cc fundal inductions, such as asthma or other respiratory problems. cc reactions and conditions, such as asthma or other respiratory problems. cc fartility, metabolism, catabolism, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, provides cc analgesic effects or other pain reducing effects, immunoglobulin like activity and can act as an antigen in a vaccine composition to raise an coding sequences of the invention.	So sequence 2818 BP, 523 A, 933 C, 825 C, 537 T, 0 other: Deery Match. 88.44; Score 2780.2; BB 22; Jangth 2818. Deery Match. 89.71; Conservative 0; Mismatches 6, Indels 0; Gape 0; Matches 2785; Conservative 0; Mismatches 6, Indels 0; Gape 0; BC CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	823

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8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2 8 2	1886 AACCTGGTGTCAGGGACTGGCTACGACTTGTGTGTGGGCTGGGCCATGTGGGGATGACTGC 1963 ACGACACTCACGGCCACCATCGTGGGCTGGTGGTGGGCGTGGTCGGGCTGACGGC 1946 ACGACACTCACGGCCACCATCGTGGGCTGGCGCCCAGTTCTTCACCAAGGCTGACTAC 1946 ACGACACTCACGGCCACACATCGTGGGCTGCGCGCCCAGTTCTTCACCAAGGCTGACTAC 2023 CGGCAGTGCCAGGCCAGCATCGTGGGCTGCGGGCCCCAAGGCTCATCGGG 1111111111111111111111111111111111	2323 GACTCCTTTCTCCTCCAGCTCCTGGGGGGGGGGGGGGGG	2503 GCCGGGAGAGGGCTGGGACCTCGGACCTCGGACCAACTGCTG 2416 [2803 2786 2786 SULT 4 AAI58215 AAI58215; AAI58215; 22-OCT-20 Human pol

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AACGGCGCCCAGCCACCGCCTCCAAGCAGCGCGCGCGGGGCCCGGGGCCCG AGCCCCCCGGGAACGGGCTGTGGTGTGTGTGAGTGACCACCACCTCGGCCCTGGTCAAG TGGTCTGTCAGCAAGTCAGCACCCCGGGTGAAGATGTACCAGCTGCAGTACAACTGCTCT TGGTCTGTCAGCAGCAGCACCCGGGGTGAAGATGTACCAGCTGCAGTACAACTGCTCT CCACACCTCAGCAACAGCAGCCGGCACTGCACCCCCCCAAGTCCCGGCCTCTCAGACATC
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 GTTCTGGAGGGCCAGGCCACACTCAAGTGCCAAAGCCATTGGGGGACCCCCAGCCCCCTT ATCCACTGGGTAGCCCCCGATGACCGCCTGGTAGGGAACTCCTCAAGGACCGCTGTCTAT GACAATGGCACCTGGGACATCTTCATCATCACCACATCTCAGGGACAGGTGGCTTGCCTGC q дD 20 d 8 8 8 qD \mathcal{S} S g δ a y q δ q δ qq ъ Р δ qq δ δ a y a ъ б a y

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.1002 44 S GCCCGCCTGGATCTCACCTCCAATCGGCTGCAGAAGCTGCCCCTGATCCCATCTTTGC CGCTCCCAGGCTTTCGCCACACCCCTTTGCCCCCACCCTTGTCCTTTAGTTTT GATGACCTGGAAACCTGTGGCTCCCCAGGGGGGCCTCCAAGGGTCGCTACTTCTGGCATGTG GAGAGCCTCCGCTGCCTGCATCGACAGCAATCGGCTGCCAAGCCTTGGGGAGGACACC GCCGCCAACTTCATCACCCCCCCCCCCCCCCCCCAACATGACGGGCCTGGTG Gacctgacctgacggaacaccatcagcgacacacatccagccctttracttraggacctc GGaCGTCCGAGGCACCATCTGCCTGCATCGCCGGAGCCGCGGAGGGTTTAGCTCGGG GGACGTCCGAGGCCACCATCTGCCTGCATTCGCCGGAGCCGGGGGGGTTTAGCTCGAG TCTGTCTCGGGCGGGGGAAGGATGCGTGGCCGGGGGGCCGGGGAGCCCGGGCGCCCCGGGGAGG q a S qq δλ yo a yo a qq δ q δ ~ 8 8 8 δ qq ą g δ qq qq δq q \mathcal{S} δ q đ δ qd

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'> Tue Jun 10 08:57:36 2003	2366 TGGAGGATCCCACCTCCGCCCCGCGCCCCAAGCCCAGCCTTGA	2443 TTCGCCTCCCTGGACCTCAAGAGTCAGAGAAAGGAGGAGCTGCT
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2425 2502 2485 2562 2545 2622 2605 2682 2665 2742 2725 2802 2785

co polynucleotides are also used in diagnostics as expressed sequence tags for identifying expressed genes. (1) is useful in gene therapy techniques to to restore normal activity of (11) or to tread disease states involving (11). (11) is useful for generating antibodies against it, detecting or a food supplement. (11) and its binding partners are useful in medical imaging of sites expressing (11). (1) are useful in medical isorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in disorders involving aberrant protein expression or biological activity. The polypeptide and polynucleotide sequences have applications in c diagnostics, forensics, gene mapping, identification of mutations responsible for genetic disorders or other traits to assess biodiversity and to produce other types of data and products dependent on DNA and c diagnostic coding sequences of the invention. Note: The sequence ada for this patent did not appear in the printed of the polynetic coding sequences of the invention.

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Sequence 969 BP; 166 A; 330 C; 316 G; 157 T; 0 other;

Gaps ; 0 Length 969 Indels 30.8%; Score 969; DB 23; I 100.0%; Pred. No. 1.4e-194; cive 0; Mismatches 0; Matches 969; Conservative Local Similarity Query Match Best 8

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GCCCGGGGGCCACTGCGACGAGAGCCACTGCTGGGGGCCCCCGGGGCCCGGGCCAGG

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pheral nervous injuries, pe tes and central nervous syst son's disease, Huntington's and Shy-Drager Syndrome. Oth activities such as: Immune S ivity, cancer diagnosis and activity, arthritis and inf data for this patent did not	Sequence 771 BP; 144 A; 259 C; 197 G; 171 T; 0 other; Juery Match 1 21.6%; Score 678.8; DB 22; Length 771; Best Local Similarity 95.8%; Pred; No. 1.8e-133; Matches 730; Conservative 0; Mismatches	QY 529 CCCAAGTACTGTGTCTCCCCAGAATCTGTCTGGGGACCCTGGGGGACCCCTGTGCCCCCCAGA 588 Db 8 CCCCAAGACTGTGTCTCGTCTGTCTGTCTGGGGGACCCTGGGGCGCCCCCAGA 67 Db 8 CCCCAAGACTGTGTCTCGCCGGAATTTGTCTGTCTGGGGCACCCTGGGCGCGCCCCCCAGA 67 0y 589 GGCCTGCTTTGTCGCCCGGAGGGCGGCGGCGGCGCGCGCG							Qy 1124 GCTCCCAGGCTTGGGCTTGGCCACCCACCCCTTGCCCTTTGCTTTG 1183 Db 608 GCTCCCAGGCTTTGACAGACACACCCTTTGCCCCACCCTTGTCCTTTATTTTG 167 Db 608 GCTCCCAGGCTTTGACAGACACACCCTTTGCCCCACCCTTGTCCTTTATTTTTG 667 Db 1184 GGGGTAACCACTTCACTGCCATTGCCCCACCCTTGTCCTCGAGGCACGACG 1243	668 668 1244	0
	Oy 2767 GAGAGTGACCTGGTGGGGGCCCGGGGGGACTTTTGCCAGTCGCTCGAATGGGGGGGG	961 ACGGTCTAG 969 LT 6 AA160001 standard; CDNA; 771 BP.	AAI60001; 22-OCT-2001 (first entry) Human polynucleotide SEQ ID NO 3990. Human: noofronic: immunosuppressant; cytostatic; gene therapy	<pre>w peripheral nervous system; neuropathy; central nervous system; CNS; w Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; w amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; w chemokinetic; thrombolytic; drug screening; arthritis; inflammation; w leukaemia; ss.</pre>	s Homo sapiens. X W W0200153312-A1.	X 26-JUL-2001. X 26-DEC-2000; 2000WO-US34263.	XX XX PR 21-JAN-2000; 2000US-0488725. PR 09-JUL-2000; 2000US-0552317. PR 19-JUL-2000; 2000US-0539042. PR 19-JUC-2000; 2000US-0653420. PR 11-SEP-2000; 2000US-0653450. PR 11-SEP-2000; 2000US-0653450. PR 11-SEP-2000; 2000US-0653936.	29-NOV-2000; 200005-072/JTT. (HYSE-) HYSEQ INC. Three VT Tim C Assundi V. Chen R. Ma Y. Qian XB.	PI TANG T, DIU C, NGURMAN T, XU C, XUE AJ, Yang Y, Zhang J; PI Wang J, Wang Z, Wehrman T, XU C, Xue AJ, Yang Y, Zhang J; PI Zhao QA, Zhou P, Goodrich R, Drmanac RT; XX WPI; 2001-442253/47. DR P-P5DB: AAM40845.		

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T 05-SEP-2001 (first entry)		
Nucleotide sequence of an interferon omega-1 like protein NOV2.	9 	
M Interferon omega-1 like protein; Nov2; membrane bound protein; W secreted protein; spermatogenesis; male infertility; neoplasia; W blood circulation; immunological discoder; sutoimmuno discono.	<i>х</i> о д	627 AGTGGAGGCTGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
inflammatory disease; cardiovascular disease; metabolic disease; cancer; viral infection; acute lymphoblastic leukemia; glioma; neurological disease; neurodegenerative disorder; Alzheimer; disease;	ν δ	<pre>687 CATGACGGGGGCTGGACCTGACCCTGTCCAGGAACACCATCAGCCACATCCAGCCCTT 746 111111111111111111111111111111111111</pre>
raintinous s'utoliter; hematopoletic disorder; ss. Homo sapiens.	vo da	747 TTCCTTTCTGGACCTCGAGAGCCTCCGCTGCATCTTGACAGCAATCGGCTGCCAAG 806 111 111 1111 11111 111111 11111111111
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/ WO200142471-A2.	vo 4	867 CCAGCTGGGCGGCATCGCAGATGAGGCTTTTGAGGACTTCCTGCTGACGAGGATCT 926
D 14-JUN-2001. X F 08-DEC-2000; 2000WO-US33463.	ò	GGACCTCTCCTACCAACCTCCCATGGCCTGCCGGGGGGCTCCCGGGCGCGCCCCCAAGCAACCTCCCAAGCAACCTCCCAAGCAACCTCCCAAGCAACCAAGCAAG
X 09-DEC-1999; 99US-0169887. R 10-DEC-1999; 99US-0170230. R 07-DEC-2000; 2000US-0170230.	d yo	CGACCTCTCTACAACCAACCTCGAGCAGCTGCCCTGGGGAGGCCCTGGGCCAACCATGGGCAA CCTCCACCAGCTGGACCACAAACCTGCTGGATCACATCGCCGAGGGGCACCTTTGC
X A (CURA-) CURAGEN CORP.	дD	543 CGTCAACACGTTGGGCCTCGACCACAACCTGCTGGCTTCTGTGCCCGGCGGCGCGTTTTTC 602
Prayaga	vo 4	AGACCTGCAGAAACTGGCCCGGCGTGGATCTCACCTCCAATGGGCTGCAGAAGCTGCCCCC CONTRICT 111111111111111111111111111111111111
R WPI; 2001-381691/40. R P-PSDB; AAB84469.	a ò	003 CONCENTRATION DESCRIPTION DESCRIPTION DE LA CONTRATICACIÓN 062 1107 TGATOCOATOTITACOCOOCTECOAGGOTTOCOOCTAGACAGOCACOCOCTATGOCOCOCOC 1166
x Novel polypeptides designated as NOV polypeptides, useful in detection, T prevention and treatment of a broad range of pathological states -	qa	
Claim	νο Έ	1167 CTTGTCCTTTAGTTTTGGGGGGTAACCCACTTCACTGCCAATTGTGAGGCTGCC 1226
	5 <i>6</i>	
preventing a NOV-associated disorder, and in the manufacture of medicament for treating a syndrome associated with a human dise	дЦ	783 TCGCCTGGCGCGGGAGGACGACCTCGAGGCCTGCCGCGCGCG
C as NOV-associated disorder. They are also useful for treating disorders C or syndromes including those involved in development, differentiation C and activation of thymic immune cells, pathologies related to	රි සි	1287 CTACTTCTGGCATGCGTGGGGGGGGGGGGGGGGGGGGGG
spermatogenesis and male infertility, diagnosis of several huma neoplasias, in disease or pathologies of cells in blood circula ench as red blood colls and alterior or circulation of the several several between the several	Q	1347 CACACAAAGTTGCTGGTTCTGGAGGGCCAGGGGGGGGCCACACTCAAGTGCAATGG 1406
	qa	903 CTCACCACCTCTGGCTGGCGCGGCTGGCTGGCTGGCTGGGGGCAGTGGG 962
metastasis, viral infections, cancer therapy, acute lymphoblast, leukemia, in gliomas, neurological diseases, neurodegenerative Alzheimer's disease, Parkinson's disorder, and hematopoietic di	çy q	1407 GGACCCCGGCCCCTTATCCACTGGGTAGCCCCCGATGACGGCAGGGAACTCCTC 1466
	Q	AAGGACCGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGGGGGGG
X O Sequence 1887 BP; 259 A; 736 C; 577 G; 315 T; 0 other;	qa	CCGTGCCCGCCCTTCCCCCAATGGGACGCTGCAGCCTGCTGGTCACCCGGGTGATGG
20.2%; Score 634.6; nilarity 61.3%; Pred No. 4.66	VO 4	1527 TGGTGCCTTCACCTGCATTGCTGCCAGCGGGGAGAGGCCACGGCGATGGGGGGGG
hes 1079; Conservative 0; M		
y 507 GTTTGCCGTGGTCGACGCCTGCCCCAAGTACTGTCTGCCAGAATCTGTCTG	5	

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Tue Jun 10 08:57:36 2003	CCCCGCG Pactoge Actrosco Actrosco Accrosco CCCCAC CCCCAC CCCCAC CCCCAC CCCCAC CCCCAC		1615 ATGATCATCACCACCACGACCACCACGAGGCCCCCAGATGGCAGGCGCGCGC	ULT 8 78215 AAH78215 standard; DNA; 1887 BP. AAH78215; 26-NOV-2001 (first entry) Nucleotide sequence of a human secreted polypeptide.	<pre>KW Human; secreted polypeptide; nervous disease; muccular disease; tumour; w gastrointesinal ulceration; spinal cord disease; trachea disease; KW thyroid gland disease; naul intestine disease; thymus disease; KW lymph node disease; muscular system disease; toolon disease; KW lipph node disease; muscular system disease; colon disease; KW nipase deficiency; cystic fibrosis; pancreatitis; clot formation; KW myccardial infarction; angioplasty; liver disease; coagulation disorder; KW microbial disease; numune disorder; inflammation; transplant rejection; KW vascular smooth cell proliferation; vaccine; ss. Homo sapiens. KK ey location/Qualifiers FH Key location/Qualifiers fr CDS long sapiens. KK ey location/Qualifiers fr CDS long sapiens. KK ei location/Qualifiers fr CDS long sapiens. KK key location/Qualifiers fr cDS long sapiens long long long long long long long long</pre>

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0y 865 CCAACTINGENCONCOGANATIGAGGETTITTAGAGANTEGANGANTIGATAGGATTAGAGAAATTAGAGAATTAGAGAAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAATTAGAGAAGA	ATTGGGGGATCA0y1945ATGTGGGATGACACAGCCAGGACCACATCGTGGGCTGGGGCTGCGGCTGCGGCTGCGGCTGCGGCTGTG200CATTGGGGGACCT4820y1195GTGTATGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG		1202 1704 1262 1314 1314 1374 1374 1434
	 867 CCAGCTGGGGGGCATCGCAGATGAGGCTTTTGAGGACTTTCTGGGGGGGATCT [423 CCAGCTGGGGGGCGCGGGGGGCGCCTGGATGATTGTGCGAGGGACCT 423 CCAGCTGGCGGGGGGGGGGCGCGGGGGGGCACTGGGGGACCTTGGGGGGGCCCTGGGGGGGCCCTGGGGGGGCCCTGGGGGG	<pre>1227 gaggercgagggaggaggaggaggargercgreggggercccgggggggggg</pre>	1143 GACTGTGGGGTCCCCCCCCCCCCCCCCGCGTGGCCGGGGTGGGCTGGGTGGG 1645 TCCCGCCCTCCGGCAGCATCACTGGCTGCGGGGGGGGGG

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GTGAGCAATGTGTACTCGCAGGCCAACCGGCGCCCAGCCGCCCCCAGGCAGCGCGCACCA CTGCAGTACAACTGCTCTGACGATGAGGTACTGATTTACAGGATGATCCCCAGCCTCCAAC cccrcgrrccrgcrgaccaccrcaccccgaccracgaccracgacrcgcc ATGTGGGATGACAGCGACACTCACGGCCACCAACATCGTGGGCTGCGCCCAGTTC TTCACCAAGGCTGACTACCCGCAGTGCCAGTCCATGCACCAGATTCTGGGCGGCGCCACC ATGATCCTGGTCATCGGGGGGGCATCATCGTGGCGGGCGACGCTGGTGGTCGTCATCCTC ATGGTGCGCTACAAGGTCTGCAACCACGAGGCCCCCAG-----CAAGATGGCAGCGGCC LRR; leucine rich repeat, 33395; cytostatic; anti-HIV; antidiabetic; antiarthritic; neuroprotective; dermatological; immunosuppresive; ss; geacideseațicensarecreiereaceiceaceiereceiererierrendeceaagéride ceacacressecceera-----ceaceaceresceresecereseceresece ACCTCGGCCCTGGTCAAGTGGTCTGTCAGCAAGTCAGCACCCCGGGTGAAGATGTACCAG Acaecreicricristics and a construction of the c ATCCAGTACAACAGCTCGGCTGATGACATCCTCGTCTCGCGGGAGAGC ĠĠĂĊĊĊaGaĠĊĊĊĠŦĠŦĠĊĠŦŦĠĠĠŦĠŦĊĊĊĊĊŔĠĠĠĊĊĠĠĊŦĠĊŦĂĠĠĊĂĂĊŦĊĂĂĠ CTCCATCGTCCAGCACACCTCAGCAACAGCACCAGCGCGCGA - - CTGCACCCCCCAAG gactretredest contract a contract a contractive contraction of the cont Georga da de contre contra de contra AAGGACCGCTGTCTATGACAATGGCACCTGGACATCTTCATCACCACATCTCAGGACAG ccereciceeceretarieserecreeredacerecreereseredared rescarchreactecarrecesccaardcascresceaseccacactecreacter GGACCCCAGCCCCTTATCCACTGGGTAGCCCCCGGATGACCGCCTGGTAGGGAACTCCTC regreccrrchecarrecreccaarecreeceeaeaeeccareeceaeeer Human leucine-rich repeat (LRR) family member, 33395 cDNA sequence. 1813 GCCGGGGCCCCGCCGCAGG 2257 ВР cDNA; 2637 entry) (first AAI66985 standard; 30-JAN-2002 1675 1735 2239 AA166985; 1615 2125 2179 1795 1315 1885 1435 1495 2005 1555 1825 1375 1945 2065 1645 1203 1263 1765 963 1467 1023 1527 1083 1587 1143 1705 1407 10 RESULT 10 AAI66985 g g \mathcal{S} g qq qq δ 8 δ qq qq δ q δ d δ qq δ g 8 δ qq δ 8 qq 8 qq 5 дp 8 1406 1346 1286 1166 1226 1046 1106 722 782 842 902 962 662 542 602 ч. Т 362 866 422 926 482 986 566 122 626 182 686 242 746 302 806 aberrant cellular adhesion; proliferation or differentiation. Specific, examples include meloblastoma, juvenile AIDS, diabetes mellitus, examples include meloblastoma, juvenile AIDS, diabetes mellitus, chrom's disease, ulcerative colitis, asthma, anemia, and chronic active hepatitis. The present sequence represents the coding sequence of the human 33355 polypeptide. CTGGTGGTGGCCTTTGGCGGGGAACCCCCTGCACCTGCAGCTGGCGGGGGAACCCCCTGCAGCTGCGGGGAACCCCCCTGCAGCTGCAGCTGCAGCTGCAGCTGCG GAGGCTCGAGCGGACGATGACCTGGGAAACCTGTGGCCTCCCGGGGGGGCCTCAAGGGTCG CTACTTCTGGCATGTGCGTGAGGAGGAGGAGTTTGTGTGCGGGGGCGCGCTCTCATCACCCAGGA CACACACAAGTTGCTGGTTCTGGAGGGCCAGGGGGGCCACACTCAAGTGCCAAAGCCATTGG AGACCTGCAGAAACTGGCCCGGCCTGGATCTCACCTCCAATCGGCTGCAGAAGCTGCCCCCC TGATCCCATCTTTGCCCGCTCCCAGGCTTCGGCTTTGACAGCCACCACCCTTTGCCCCACC CTTGTCCTTTAGTTTTTGGGGGTAACCCACTTCACTGCAATTGTGAGCTTCTCTGGCTGCG rcectreccededadadcatcrrcadadcrrecededcrecededced CCTCCACCAGGCCTGGACCAGAACCTGCTGGATCACATCGCCGAGGGCACCTTTGC cardacadeccrecrecreacerercecedatecereced TTCCTTTCTGGACCTCCGCTCCCCTCCCTGCATCTTGACAGCAATCGGCTGCCAAG cecentrecedactrecedectorecerecarectredarectarectedectedectedectere 363 ACTGGGCGAGGGCCAGCTGGGGGCCTGGTCAACTTGGGGCCACCACCACCACCACCACCA CCAGCTGGGCGGCATCGCAGATGAGGCTTTTGAGGACTTCCTGCTGACATTGGAGGATCT ċcadcradeceredecedecedecedeceredardariereceadacacradeadeacer GGACCTCTTCCTACAACCATGGCCTGCCGTGGGGACTCGCGGACGCATGGTCAA cercaacacerresectreaaccacaaccaceacerecresecceseceeceece cceććrećacadecreecceecreeacareaceredaceredacecreaceace CATGAGGGGCTGGACCTGACCCTGTCCAGGAACACCATCGGCCATCCAGCCCTT GGGGACCCTGTGCCCCTCCAAGGGGGCTGCTCTTTGTACCCCCCTGATATTGACCGGGGGGAC AGTGGAGCTGCGCCGGCCGACCTTCATCATCACCACCACCGCCCGGGACTTTGCCCAA <u>Adecedadecredecadadatricarcarcecredecececececececeacecea</u> ĠŗcaĠċċacacccarġrċċċċcccccċrġċċċċġġċaġacaċaġacaġċċċċċċ Gaps 16; Length 1887; Indels other; Score 633; DB 22; 1 Pred. No. 1e-123; 0; Mismatches 665; 316 T; 0 : 0 579 Sequence 1887 BP; 257 A; 735 C; 20.1%; ilarity 61.3%; Conservative Similarity Best Local Simi Matches 1078; 1227 783 1287 1347 1047 1167 723 843 903 1107 663 603 483 987 543 507 747 807 867 423 927 567 183 687 243 303 63 123 627 Query Match qq δ g 8 g qq δ qq 8 q δ ą δ 1 q δ qd δ q ò $\delta \lambda$ g 8 g \mathcal{S} g δ ą δ g 22222222222228

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Homo sapiens	16.	
Key 5 ' UTR	Location/Qualifiers 1.434	
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3 ' UTR	ne codi	
WO200172827-A2	7-A2.	
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23-MAR-2001;	1; 2001WO-US09470.	
24 - MAR - 2000;); 2000US-191863P.	
IW (-TTIW)	MILLENNIUM PHARM INC.	
Glucksmann	MA ;	
: 2001- 5DB; AA	WPI; 2001-626254/72. P-PSDB; AAG65805.	
polype lular a /peptid	New polypeptide for preventing or treating disorders associated with cellular adhesion, proliferation or differentiation, comprises olypeptide 33395, a member of the leucine rich repeat protein family	
Claim 1; F	Fig 1; 133pp; English.	
invent the leu	ion provides an isolated nucleic acid encoding a polypeptide tine rich reneat (IRR) familv. designated 31395. The 31395	
/peptid 35 poly	e can be expressed by standard recombinant methodology. The nucleotides and polypeptide can be used to prevent or treat	
orders rrant c moles i	sissociated with 31395 expression, for example those involving ellular adhesion, proliferation or differentiation. Specific aclude meloblastoma, invenile ATDS, diabeter mellitus	
matoid on's di atitis. 95 poly	theumatoid arthritis, systemic lupus erythematosis, multiple sclerosis, Chron's disease, ulcerative colitis, asthma, anemia, and chronic active hepatitis. The present sequence represents the CDNA encoding the human 33395 polypeptide.	
Sequence 2	2637 BP; 452 A; 976 C; 758 G; 451 T; 0 other;	
Query Match Best Local Simila Matches 1078; Co	20.1%; Score 633; DB.22; Length 2637; nilarity 61.3%; Pred. No. 1.1e-123; - Conservative 0; Mismatches 665; Indels 16; Gaps 3;	
507 G	SCGTGGTCGACCTGCCCCAAGTACTGTGTCTGCCAGAATCTGT	
497 G	GTCAGCCACACCCACCCCCCCCCCCCCCCCCCCCCCCCC	
567 G 557 A	GGGGACCCTGTAGGGGCTGCTCTTTGTACCCCCTGATATTGACCGGGGGGAC 626 I <td></td>	
627 A 617 A	AGTGGAGCTGCGCGGCAACTTCATCATCATCAGCCGCCGCGGGACTTTGCCAA 686 	
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	careacadecerectatorescenterescesaacacearececcateresces 736	
737 C	ceccrirceccéaccrecérecérecérecérécáccreéareécaaccéécréacere 796	

у q	807 CCTTGGGGAGGAGGACCCTCCGG 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CCTTGGGGAGGACCCCCCGGGGGCCTGGTCAACCTGCAGCACCTTATCCTGAACAACAA 866
Ś	867 CCAGCTGGGCGGCATCGCAGAT	CTGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
qu	CAG	sececcradardarrierecceadacactrededectr 916
QY Db	927 GGACCTCTCCTACAACAACAACATC 	CTCCTACAACAACCTCCATGGCCTGCGGGGACTCCGTGGGCGCGCGC
٥٧ ٥	, ccr	SCCGAGGGCACCTTG
Ъb	-5	CAACACGTTGGCCTCGACCACCAGCTGCTCTGTGCCGCCGCCGCCGCCGCTTTTC 1036
Q	1047 AGACCTGCAGAAACTGGCCCGC	GACCTGCAGAAACTGGGCCGGCTGGATCTCACCTCCAATGGGCTGGCAGGAGGCGCCCC 1106
дD	1037 CCGCCTGCACAAGCTGGCCCGG	ccca
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рþ	1097 CGACCCACTCTTCCCCCCCG	cccrecreecedeececeeeecreececeeecree 1156
δλ	67 C	\sim
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qq	1217 TCGCCTGGCGCGGGGGGGGCGAC	criécécercécrécrécréacecée 127
δλ	87 CTA	
qa	1277 CTACTTTGGGCGGTGGGCGAG	crcaccc 133
δγ	1347 CACACACAAGTTGCTGGTTCTG	CACACACAAGTTGCTGGTGCGGGGGGGGGGGGGGGGGCGCCACACCAAGGGAAAGGCATTGG 1406
цц	1337 crcaccrcrcrdgcrdrgcco	G 139
Ś	1407 GGACCCCAGCCCCTTATCCACTC	TGGGTAGCCCCGATGACCGCCTGGTAGGGAACTCCTC 1466
qq	GACCCAGAGCCCCCGTGTGC	defercacecededecedecreeradecadercade 145
oy	1467 AAGGACCGCTGTTGTCTATGACAAT	CACATCTCAGGACAG 152
qa	1457 ccdrgcccgcccrtrccccAh	GTCATG
ōy	- SC	GCCATGGTGGAGGT 158
рþ	GGCATCTTCAC	cT 157
QY	CAGCTG	CCCCCCAAG 1
рþ	crefederéceéca	GTGACCCCCCCCC 163
QY	45 TCCCGCCTCTCAGACA	GCAAGACCAGGCGGGGGGGGGGGGGGGGGGGGGGGGGG
рb	1637 GGACGGGGGATCCTGATGCTCTC	cccrcccrccrcrcrcrcrcrcrcrdcrdcc 1
οy	1705 GGCGGAGCCTCCCAAAAGCCCCCCGG	AACGGGCTGTGCTTGTGTGTCTGAAGTGACCACC 176
qq	1697 CGACACTGGGCCCCCTA	accerceacercadereacreacecece 1
QY	1765 ACCTCGGCCCTGGTCAAGTGCT	cccredercaagreaterescaagreageregeregereagereraced 1824
qu	49 ACAGCTG	CGGATCAGCGGCCTATCCCGGGCATCCGCATGTACCAG 1808
Q	1825 CTGCAGTACAACTGCTCTGACG	TGCAGTACAGCTCTGACGATGAGGTACGATTTACAGGATGATCCCAGCCTCCAAC 1884
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sotides of secreted proteins useful g. rheumatoid arthritis, cancer, f p; English. man secreted polypeptides designate h polypeptides. Novel secreted prot treating diseases such as atherosc ic retinopathy, psoriasis, pancreal d arthritis, colorectal adenomas, i schaemia, carcinomas, hemolytic inschaemia, carcinomas, hemolytic inschaemia, carcinomas, hemolytic ins and cancer especially liver can ing and cancer especially liver can the treatment of diseases associat civity. They are also used in gen can lp220 secreted protein encoding iomosome liqi3.	Query Match19.8%; Score 622.6; DB 24; Length 2369;Best Local Similarity62.3%; Pred. No. 1.6e-121;Best Local Similarity62.3%; Pred. No. 1.6e-121;Matches 1089; Conservative0; Mismatches 609; Indels 51; Gaps 5;Qy520 GacGccredccraferrerrerrerrerrerrerrerrerrerrerrerrerr	700 0 389 0 449 9 820 5 509 5 569 5 569 5	QY 940 aACAACCTCCATGGCCTGGCGCGGCGCGCGCGCGCGCGCGC
	<pre>2239 GCCGGGGCCCCGCGGGG 2257 2229 GCCGGGGCCCCGCGGGG 2247 2229 CCCGCCCGGAGCCGGGG 2247 2229 CCCGCCCGGAGCCGGGG 2247 38695 AAD38695 standard; cDNA; 2369 BP. AAD38695; 23-SEP-2002 (first entry) Human LP220 secreted protein encoding cDNA.</pre>	The combined imminode rectal adenoma; haem isectarsis; wound he oscierosis; psoriasis; jualifiers "Human LP220 secrete	/product= "Mature human LP220 secreted W0200226801-A2. 04-APR-2002. 14-SEP-2001; 2001WO-US26026. 28-SEP-2000; 2000US-236088P. (ELIL) LILLY & CO ELI. Su EW, Wang H; WPI; 2002-471259/50. P-PSDB; AAE23980.

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rccadecree 1239 references 1239 references 1299 refregedar 1299 refregedar 1299 refregedar 1299 refregedar 1299 wereacting 1359 reconderer 1419 condecret 1419 reconderer 1429 reconderer 1449 reconderer 1429 reconderer 1449 reconderer 1449	CC of the invention. The antibody may be used for detecting the FKO CC proteins of the invention and may be used to modify their activity. CC polynucleotides may be used as hybridisation probes for a cDNA library CC polynucleotides may be used as hybridisation probes for a cDNA library CC to isolate the full-length PRO cDNA or to isolate other cDNAs, to CC construct hybridisation probes for mapping the gene which encodes that CC PRO and for genetic analysis of individuals with genetic disorders, in
 1110 TTTGGGGGGTMACCCATTCATTCATTCATTCATTCATTCATTCATTCAT	QY 2197 CAGACCAACGGGGGCCAGGGCTCCAAGGGGGGGGGGGGG

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Page 18

0y 1347 CACACACAAAGTTGCTGGTGGTGGGGGGCCAGGGGGGGCCACTCAAGTGCAAAGCCATTGG 1406 1635 CTCACACAAGTTGCTGGGCGGGGGGGGGGGGGGGGGGGG			Qy 1885 AAGGCCTTCGFGGTCAACAACCTGGGGGACTGGCGGGGCTGGCGGGGCGCGCGGGGCGCGGGGCGGGGGCGGGGGCGGGG	2257 2010 2011 2011 2011 2011 2011 2011 201	Db 2527 CCCCCCCGGGGCCCGCGG 2545 RESULT 13 ANT78204 standard; DNA; 2316 BP. XX AAH78204 standard; DNA; 2316 BP. XX 26-NOV-2001 (first entry) XX 26-NOV-2001 (first entry)
CC assays to identify other proteins or molecules involved in binding CC traction, to generate transgenic animals or knock-out animals which in CC trarn are useful in the development and screening of therapeutically CC useful reagents, for chromosome identification, and tissue typing. The CC markers for protein electrophoresis purposes. The sequences may CC also be used to detect overexpression on PRO polypeptides in cancerous cC tumours and for screening for differentially expressed genes using microarray technology. The present sequence represents a CDNA encoding CC a human PRO protein of the invention. XX Sequence 2855 BP; 552 A; 1007 C; 799 G; 497 T; 0 other;	Query Match19.8%; Score 621.8; DB 24; Length 2855;Best Local Similarity 61.3%; Pred. No. 2.5e-121;Best Local Similarity 61.3%; Pred. No. 2.5e-121;Matches 1078; Conservative 0; Mismatches 662; Indels 19; Gaps 4;Oy507 GTTGCCGGGGGGGGGGGCGCGCGGGGGGGGGGGGGGGG	AGTGGAGCTGCGCCTGGGCGGCAACTTCATCATCATCACCAGCGCGCGGGAGACTTGCCAA 		<pre>121B GGACCTCCTACAACAACCTGGAGGAGCACCTGCTGGAGGGCGAGGGCACCTTTGC 9B7 CCTCCACCAGGCTGGAGCCTGGAGGACCAGCTGCTGGGGGGGG</pre>	0y 1167 TTGTCTTTAGTTTTGGGGGGGGGGGGGGGGGGGGGGGGG

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DE XX	Nucleotide sequence of a human secreted polypeptide.	4C	1) [[
KW KW KW	Human; secreted polypeptide; nervous disease; muscular disease; tumour; gastrointestinal ulceration; spinal cord disease; trachea disease; thyroid gland disease; ovary disease; prostate disease; heart disease; renal dland disease; small intertine disease; thomus disease;	0 A	CCTGATATTGACCGGCGGACAGGGGGGGGGGCGGGGGGGG
KW KW	lymph node disease; muscular system disease; colon disease; lipase deficiency; cystic fibrosis; pancreatitis; clot formation;	3 8	
KW KW K	mycocardial infarction; angloplasty; liver disease; coagulation disorder; microbial disease; immune disorder; inflammation; transplant rejection; bone thickness; bone density; ferroxidase loss; apoptosis;	qa	241 CGCCGCGGGGGCTTCGCCAGCCAGCCAGCCTGGTGGTGCTCGCTC
XX		δγ	ATCAGCCACATCCAGCCCTTTCCTTTCTGGACCTCGAGAGCCTCCGCTCCTGCATCTT
so x X	Homo sapiens.	qu	301 ATCGGCCAGGTGGCGCCTTCGCCGACCTGCGTGCCTCCGGGCCCTGCACCTG 360
H4 H4	Key Location/Q CDS 1.2316 /*tag= a	νς d	787 GACAGCAATCGGCTGCCAAGCCTTGGGGAGGACACCCTCGGGGGCCTGGTCAACCTGCAG 846
T XX NA	/product= "secreted polypeptide" WO200166690-Å2.	ХО .	847 CACCTTATCGTGAACAACCAGCTGGGGGGGGGGGGGGGG
XX	13-SEP-2001.	qa	CACCTGATCCTTGGAAACAACCAGATCCGCCGGGGGGGGG
AX PF	05-MAR-2001, 2001WO-US07143.	δ 2	907 CTGCTGACATTGGAGGATCTGGACCTCCTACAACAACAACATGGCCTGCCGTGGGAC 966 1 1 1 1 1 1 1 1 1
R R R R R R R R R	06-MAR-2000; 2000US-0187107 13-MAR-2000; 2000US-0188916 03-OCT-2000; 2000US-0238674	a o a	TCCGTGCCACCGGTGGACCTCCCCCCCCGGCCGGGGCCCTGCGGGGGGGG
XX PA PA	HTIMS (XIMS) (SMIK) SMITH	QY	ATCGCCGGGGGCACCTTGCAGACTGCAGAAACTGGCCCGCCTGGATCTCACCTCCAAT
XX	Agarwal P, Murdocl	ୟ ପ	ATCGCGCAGGGCACCTTCGTGCCTCCAAGCTGCTCCGTCCG
X X X X		ov da	1087 GOGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
XX T T T T T T T T	Novel isolated secreted polypeptide useful for treating nervous and muscular diseases, gastrointestinal ulceration, coagulation and immune disorders, microbial diseases, inflammation and transplant rejection -	δ Δ	1147 GCCACACCCTTGCCCACCTTGTCCTTAGTTTGGGGGGTAACCCACTTCACTGCAAT 1206 1 1 1 1 1 11 <td< td=""></td<>
XX Sd	Claim 2; Page 43-44; 102pp; English.	ò	ŢĠŦſĠĂĠĊŢŦĊŦſĊŢĠĠĠĠĂĠĠĊŦĊĠĂĠĊĠĠĠĠĠĠĠĊĠĂŦĠĄĊĊŢĠŦĠġĊĊŦĊĊ
285	The present sequence encodes a human secreted polypeptide. The	ф.	712 TECEAGETECTEGECTEGEGECEGECTEGEGEGEGEGEGEGEGEG
3886	nervous and muscular diseases, for inhibiting tumour formation and mervous and muscular diseases, for inhibiting tumour formation and metastasis, for treating gastrointestinal ulceration, for preventing metastasis, in contral order thursday and a second and	λο d	1267 CCAGGGGGCCTCAAGGGTGGCTACTTCTGGCATGGGGGGGG
8888	renal gland, small intestine, heart, trached, thymus, lymph node, wuscular system and colon, for treating lipase deficiency in cystic	8 8	ccacctretestestestestestestestestestestestestes
388	<pre>tibrosis and pancreatitis, for treating undesirable clot formation such as myocardial infartion, during angioplasty and all surgical procedures that require decreated blood clot formation. for treating</pre>	40	
ទេន	Fiver diseases, coagulation disorders and microbial diseases, for treating immune disorders, for treating inflammation and transplant	6	1384 ACACTCAAGTGCAAAGCCATTGGGGACCCCAGCCCCCTTATCCACTGGGTAGCCCCCGAT 1443
8888	rejection, for enhar for reducing the los apoptosis, and for r	g y	952 AGCCTGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
338	may also be used as vaccines. Semience 3116 RD: 347 D: 836 C: 75	q	1012 GGGCGGCTGCTGGGGAACTCCAGCCGGGACCGGGGGGGGG
	outery Match 19.7%; Score 618.8; DB Duery Match 19.7%; Score 618.8; DB Asst Local Similarity 60.7%; Pred No. 16-170.	YO 4	1504 TTCATCACCACATCTCAGGACAGTGGTGCCTTCACCTGCCATTGCTGCCGGA 1563
	les 1129; Conservative (3 3	4 GAGGCPACGGCCATGGTGGGGGGGGGGGGGGTCTCCTCGGCGCGCCCCCCCC
δ g	487 CTGCTAGCGTTTGGCATGGCGTTGGCGTGGTCGACGCCTGCCCCAAGTACTGTGTCTGC 546 	2 d	
οv	CAGAATCTGTCTGAGGGCACCCTGTGCCCCTCCAAGGGGCCTGCTCTTTGTACCC	ov.	1624 AGCGGGCACTGCACCCCCCAAGTCCCGGCCTCCAGGAGGACCAGC 1683

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	<pre>DR wFI; 2002-154735/20. DR wFI; 2002-154735/20. PF P5DB; AAE17484. XX New leucine-rich repeat proteins and polynucleotides, useful for diagonosing and treating disorders related to abnormal cell growth e.g. PT retinoblatoma, renal cell, endometrial adenocarcinoma, leukemia, PT kidney and lung tumors -1, endometrial adenocarcinoma, leukemia, PT kidney and lung tumors -1, rendometrial adenocarcinoma, leukemia, CC repeat proteins Zlrr7, Zlrr8, Zlrr9, Zlrr9, Zlrr9, Zlrr9, CC zlrr7, Zlrr8, and Zlrr9, proteins are useful in directing the secretion of proteins in general from cells and tissues. The Zlrr NA and proteins CC proteins in general from a host cell adenocarcinoma, endometrial growth, including retinoblastoma, renal cell adenocarcinoma, endometrial denocarcinoma, eloblastoma, neuroblastoma, B-cell lymphotic leukaemia, cC growth, including retinoblastoma, renal cell adenocarcinoma, endometrial adenocarcinoma, eloblastoma, renal traners, lung large cell carcinoma, mammary.</pre>	<pre>c colon adenocarcinoma. genitourinary tract transitional cell tumours,</pre>	57 116 69 69 75 22 22 22 22 22 22 22 22 22 22 22 22 22	0y 760 CTCGAGAGGCTCCGCTCCTGACACCTTGACAGCCTTGGGGAGGGA
SCCGGGC 1245 SGCTGTG 1743 GGCTC 1284 TTCAGCA 1803 3CTTGTG 1344 3ATTTAC 1863 CGTCTAC 1404 3ACTGGC 1923	1405 AddattahTCCCertCarCarCarGarCarTacCriteriosida Criteriosida Gardantes 1924 TacGarCTTGFGFGFGFGGCGCAFGGGGGAGGGGGGGGGGGGGGGG	<pre>2163</pre>	AAD28124 standard AAD28124 (fi 22-APR-2002 (fi Human leucine-ri endometrial aden cell growth diso mammary gland; y rhabdomyosarcoma Homo sapiens.	FH Key Location/Qualifiers FT CDS 1.1653 FT /t1853 FT /t186 a /t188 protein" FT /product= "ZLRRB protein" FT /pote = "CDS does not include stop codon" FT sig_peptide 1.54 FT /ttag= b

Oy1960GCCACGACATCATCGCCCCAACATCTTCACCAGGCT2016Db1444GGGCCTTCTAGCCTCAGGCCCAGGCTGGGGCTGGGCCGGTTTTCTCCACGCTGCG1503Oy2017GACTACCGGCAGTGCCAGGCCAGGCTGGGCGGGGGGGGGG	<pre>XULT 15 228125 AAD28125 stan AAD28125; 22-APR-2002 Human leucine Human leucine endometrial a cell growth dammary gland rhabdomyosarc Homo sapiens. WO200202604-A 10-JAN-2002.</pre>	<pre>PF 02-JUL-2001; 2001W0-U520999. XX 30-JUN-2000; 2000US-215446F. XX Thayer EC, Sheppard PO, Presnell SR; Werl; 2002-154755/20. X Werl; 2002-154755/20. Werl; 2002-154755/20. Werl; 2002-154755/20. Werl; 2002-154755/20. Werl isonal ung tumors - related to abnormal cell growth e.g. tidarposing and trating disorders related to abnormal. leukemia, tratinoblastoma, remai cell; endometrial adenocarcinoma, leukemia, tratinoblastoma, remai cell; endometrial adenocarcinoma, leukemia, pr diagnosing and turg tumors - related polypeptide comprising leucine-rich tratinoblastoma remai cell; endometrial adenocarcinoma, leukemia, pr diagnosing and treating disorders related to abnormal cell pr tratino relates to an isolated polypeptide comprising leucine-rich repeat proteins in general from a host cell and of monitor the secretion of proteins in general from cells and tisecing disorders related to abnormal cell proteins in general from cells and tisecing disorders related to abnormal proteins in general from cells and tisecing disorders related to abnormal proteins in general from cells and tisecing disorders related to abnormal proteins in general from cells and tisecing disorders related to abnormal proteins in general from cells and tisecing the secretion of proteins in general from cells and tisecing the secretion of proteins in general from cells and tisecine for drug design to screen proteins and prostered adenocarcinoma, geneticen is useful for identifying adom sammary. The present sequence is human 2. CC and adenocarcinoma genetion cell culture components 21rr NN is adom setul in gene tis located on chromosome 14q13. Sequence 1653 BP; 179 A; 217 C; 329 G; 195 T; 733 other; CC and reset BNA, 217 C; 329 G; 195 T; 733 other; CC and reset BNA, 217 C; 329 G; 195 T; 733 other; CC and adenocarcinoma is located on chromosome 14q13. CC adenorate DNA, 217 C; 329 G; 195 T; 733 other; CC adenorate BNA, 217 C; 329 G; 195 T; 733 other; CC adenoration ADA (C) ADA (C) ADA (C) ADA (C) ADA (C) ADA (C</pre>
QVB80ATCGCAGATGAGGCTTTGAGGACTTCCTGCTGCTGCAGGAGCTCTCGACCTTCCTAC939Db10111<	1060 CTGGCCGCCTGGATCTCACCTCAATCGGCTGGCAGAAGCTGCCCTGATCCTTTTT 583 CTCTCCGGCCTGGACCTCACCTCAACCGGCTGGCCGGCGGGGGGGCTCGGGCGGCGCGCGC	Db 971 TraderrectadaAGGCCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGGGGCGCGC

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	1.5 11604 4 US-09-385-028-13 Sequence 13, 1.5 15079 4 US-09-385-028-1 Sequence 1, 1.5 2338 1 US-08-25-059-1 Sequence 1, 1.5 2338 2 US-08-317-844B-1 Sequence 1,	1.5 44377 2 US-08-804-227C-7 Sequence 7, 1.5 44377 2 US-08-804-198-1 Sequence 1, 1.5 44377 5 DG-804-198-1 Sequence 1,	1.5 03/0 5 FC1 C031 F032 F033 F1 1.5 03/0 4 US-09-166-021B-11 Sequence 1.5 4134 4 US-09-687-477-17 Sequence 1.5 2290 4 US-09-131-648-4 Sequence	4 891 4 US-09-452-239-1 Sequence 1, 4 403765 4 US-09-103-840A-2 Sequence 2 4 1019 4 US-09-452-239-35 Sequence 2, 1119 4 US-09-987-943-2 Sequence 2, 1119 4 US-09-987-943-2 Sequence 2,	1.4 1/25 4 US-09-297-987-34. Sequence 1, 1.4 1226 4 US-09-249-585A.2 Sequence 2, 1.4 2580 3 US-09-050-863-2 Sequence 2,	1.4 2580 4 US-09-359-081-2 Sequence 2,	ALIGNMENTS		Applicatio 005089 ORMATION:	AFFLICANT: LAILAR, FYANCOIS AFFLICANT: Phillips, David R. APPLICANT: Cazenave, Jean-Pietre TITLE OF INVENTION: Platelet Glycoprotein V Gene and Uses NUMBER OF SEQUENCES: 43	THE TOWNERS I TOWNSEND Khourie and Crew SEE: 70 Untron Avenue	Palo Alfo California RY: US 94301	COMUDTER READABLE FORM: Medium type: Fiopy disk computed: the pc comating	OPERATING SYSTEM: PC-DOS/MS-DOS OPERATING SYSTEM: PC-DOS/MS-DOS OSFTWARE: PALENTIN Release #1.0, Version #1.25	KKENT APPLICATION DATA: APPLICATION NUMBER: US/08/592,500 FILING DATE:	CLASSIFICATION: 536 PRIOR APPLICATION DATA: ADDITICATION NIMPED- 115 08/000 455	n	NAME: Dow, Karen B. REGISTRATION VIMBER: 29,684 DEDEDENCY TIMBED: 1,110-20	017710	TELEFAX: (415) 326-2422 INPOMMATION FOR SED ID NO: 1: SEDVIENDE CHARAFEDTENTER	CTARACLERISILOS: 7452 base pairs nucleic acid	STRANDEDNESS: single TOPOLOSY: linear LETILE TYDE: lnba (rennmir)	RCE: Hon	EY: intron DN: 1462.2419	
· · ·				Title: US-09-831-846-1 38 45. Perfect score: 3144 40 45. Sequence: 1 95.5 44. A1 40 45. 46. A2 5 5 5 40. A3 40 45. 40. 45. A4 40. 44. 44. 44. A4 44. 44. 44. 44.			Total number of hits satisfying chosen parameters: 882724	Minimum DB seq length: 0 Maximum DB seq length: 200000000	Post-processing: Minimum Match 0% 5590-500- Sequence 1, 5590- Maximum Match 100% 5590- Listing first 45 summaries 55828AL INF	Database : Issued Patents NA:* : APFLICAN 1: /cgn2_6/ptodata/2/ina/5A_COMB.seq:* : APPLICAN 2: /cgn2_6/ptodata/2/ina/5B_COMB.seq:* : TITLE OF 3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:* : NUMBER 0 3: /cgn2_6/ptodata/2/ina/6A_COMB.seq:* : .	<pre>/ CUIL-20 PUCUCIAL AD = CUINESSEG : C</pre>	Fred. No. is the number of results predicted by chance to have a sTATE: V STATE: V STATE: V STATE: O SCORE greater than or equal to the score of the result being printed, cOUNTRY: and is derived by analysis of the total score distribution.	COMPUTER SUMMARIES COMPUTE	ery tch Length DB ID Description	81.8 2.6 7452 3 US-08-592-500-1 Sequence 1, Appli 81.8 2.6 7452 3 US-08-195-006-1 Sequence 1, Appli	B1.8 2.6 7452 5 FCT-US94-07644A-1 Sequence 1, Appli B1.6 2.6 2852 4 US-09-063-950-1 Sequence 1, Appli 79 4 5 5 7019 4 HS-09-063-950-1 Sequence 1, Appli	77.2 2.5 2176 4 US-092-022-024-1 Sequence 7 Appli 5 63.8 2.0 4843 3 US-08-986-485-1 Sequence 1 Appli 7 7	56.4 1.8 2600 2 US-08-427-497E-4 Sequence 4, Appli 56.4 1.8 3189 2 US-08-427-497E-3 Sequence 3, Appli 7 56.4 1.8 3174 2 TIC-0-31047E-3 Sequence 3, Appli 7 50.55 4 1.8 2174 2 TIC-0-31047E-3 50.55 4 1.8 20.55 50.55	56.4 1.8 3774 2 US-08-427-497E-1 Sequence 1, Appli 56.4 1.8 3774 2 US-08-427-497E-1 Sequence 1, Appli 56.4 1.8 3774 2 US-08-427-497E-2 Sequence 2, Appli	56.4 1.8 3888 4 US-08-506-296B-13 Sequence 13, Appl 51.6 1.6 4203 2 US-08-66-757-1 Sequence 1, Appli 7 51.6 1.6 4203 4 US-08-152-503-1 5000000000000000000000000000000000000	16 50.2 1.6 1685 6 534034-1 240 Patento 1, Appl. 1 16 50.2 1.6 1685 6 534034-1 Patent No. 534034 17 48.8 1.6 1362 4 US-08-0818-112-7 Sequence 7, Appli	48.8 1.6 1362 4 US-08-818-111-7 Sequence 7, Appli - 7 48.8 1.6 1362 4 US-09-056-55-7 Sequence 7, Appli - 7 48.8 1.6 1362 4 US-09-055-55-7 Sequence 7, Appli - 7	21 48.8 1.6 4403765 4 US-09-103-840A-2 Sequence 2, Appli 22 48.8 1.6 4411529 4 US-09-103-840A-1 Sequence 1, Appli	48 1.5 503 4 US-09-297-269-40 Sequence 40, Appl 7.6 1.5 3783 4 US-08-506-296B-20 Sequence 20, Appl 7 7.4 1.5 906 1 US-07-817-852A-1 Sequence 1, Appli 7	47.4 1.5 906 1 US-08-470-137-1 Sequence 1, 47.4 1.5 1182 4 US-09-385-028-19 Sequence 19,

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Tue Jun 10 08:57:37 2003	<pre>%: 24224101 Y: misc_signal WFORMATION: /function= "Putitive TPA WFORMATION: /label= TRE WFORMATION: /label= TRE WFORMATION: /label= Ets-1 NFORMATION: /label= Ets-1 NFORMATION: /label= Ets-1 NFORMATION: /label= Ets-1 Y: misc_signal NFORMATION: /label= Ets-1 Y: repeat region NFORMATION: /label= Ets-1 Y: repeat region NFORMATION: /label= Ets-1 Y: repeat region NFORMATION: /label= Ets-1 Y: repeat region NFORMATION: /label= Ets-1 Y: misc_signal NFORMATION: /label= Ets-1 Y: misc_signal NFORMATION: /label= Ets-1 NFORMATION: /function= "Ets-1 cis-ac NFORMATION: /label= Ets-1 NFORMATION: /label= Ets-1 NFORMATION: /label= Ets-1 NFORMATION: /function= "Ets-1 binding NFORMATION: /function= "Ets-1 cis-ac NFORMATION: /function= "Ets-1 cis-ac NFORMATI</pre>	OTHER INFORMATION: /standard_name= "Polyadenylation OTHER INFORMATION: signal sequence" FEATURE: NAME/KEY: misc signal

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ö 3233 reactricitricadeaacciectecaeaecriciceeeeeerectricitriceeeeeee 3292 3353 GCAACCTGAGCCCCTGCGGTACTTAGGGGTGACTCTGAGCCCGCGCTGAGCGCGCTTC 3412 3413 CGCAGGGCGCTTCCAGGGCCTTGGCGAGCTCCAGGGCGCC 3472 947 TCCATGGCCTGGCGTGGGGACTCCGTGGGACGCATGGTCAACCTCCACCAGCTGGGCCTGG 1006 3473 TGACCGCCTCCCCGACGGCTTGCTGCCGGGCCTCGGCAAGCTGCGCCAGGTGTCCCTGC 3532 766 946 826 827 GGGGCCTGGTCAACCTGCAGCACCTTATCGTGAACAACAACAACAGCTGGGCGGCATCGCAG 886 707 TGACCCTGTCCAGGAACACCATCAGCCACATCCAGCCCTTTTCCTTTCTGGACCTCGAGA 887 ATGAGGCTTTTTGAGGACTTTCCTGCTGACATTGGAGGATCTGGACCTCCTACAACAACC Gaps ; 0 NAME/KEY: misc feature CCATION: 1..7452 OTHER INFORMATION: /standard_name= "Nucleotide OTHER INFORMATION: sequence containing the human GPV gene" US-08-195-006-1 Length 7452; Score 81.8; DB 3; Length 7 Pred. No. 1.1e-08; 0; Mismatches 197; Indels NAME/KEY: misc_signal LOCATION: 5610.5615 OTHER INFORMATION: /standard_name= "Polyadenylation OTHER INFORMATION: /signal sequence" NAMEJKEY: misc_signal NAMEJKEY: misc_signal LOCATION: 6966..6971 OTHER INPORMATION: /standard_name= "Polyadenylation OTHER INPORMATION: signal sequence" FBATURE: NAME/KEY: misc signal LOCATION: 7224..7229 OTHER INFORMATION: /standard_name= "Polyadenylation OTHER INFORMATION: signal sequence" /standard_name= "Polyadenylation signal sequence" LOCATION: 1285..1289 OTHER INFORMATION: /function= "GATA-1 binding site' site /function= "Ets-1 cis-acting
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vative O	Gaps 0; Qy 555 GTCTGAGTCACTGGGGACCCTGTGGGGCTCCTCTAGGGGCTGCTCTTTGTACCCCCTGATAT 61	4
QY 707 TGACCCTGTCCAGGAACACCATCAGCCACATCCAGCCCTTTTCCTGGACC	rceaga 766 249 249 caeccadeccadecadeacagrétricriécadeaceadegéaceagegéacéagéacer 308	ø
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Qy 767 GCTCCGTCCTGCATCTTGACAGCAATCGGGTGCCAAGCCTTGGGGAGGACACCCTCC	CCCTCC 826 Db 309 GCCACCCGACACGGGGGCCTGTACTTTCAGAACGGCATCACCCATGACGACGCAGG 368	m
Db 3293 GCCTGCAGGAGCTGAACCGCACCCAGCTGCGCGCCCCCGCCGCCGCCGCCGCCCTTCC	II III correc 3352 Qy 675 generitigecanentigaegegegegegegegegegegegegegegegegegege	***
QY B27 GGGGCCTGGTCAACCTGCAGCACCTTATCGTGAACAACCAGCTGGGCGGCGTCGCAG	TCCCAG 886 Db 369 CAGCTTTGCCGGCCTGCCGGGCCTGCAGCACCTGCTAGAACCACGAACCAGAACCAGAACCACGAACCACAGAACCAGAACCAGAACCAGAACCACAGAACCAGAACCAGAACCAGAACCAGAACCAGAACCAGAACCAGAACCAGAACCAGAACCAGAACCAGAACCAGAACCACAAACAAACAAACCAGAACCAGAACCAGAACCAGAACCAGAACCACAGAACCAGAACCAGAACCAGAACCAAGAACCAGAACCAGAACCAGAACCAGAACCAGAACCACAGAACCAGAACCAGAACCAGAACCACAGAACCACAACA	
Db 3353 GCAACCTGAGCCGCTGCGGTACTTAGGGGTGAGCCGGGGCTGAGCGCGGGCTTC	3412 OV	
0y B87 ATGAGGCTTTTTGAGGACTTCCTGCTGACATTGGAGGATCTGGACCTCTCCTACAACAACC	946 Db 429	~
Db 3413 CGCAGGGGCGCTTCCAGGGCCTTGGCGAGCGCGGGGGCGCCTGCAGTGCTGCGGCGCGCGGCGCCTGCAGTCCP	3472 QY 795	
Qy 947 TCCATGGCCTGCGTGGGACTCCGTGCGACGCATGGTCAACCTCCACCAGCTGAGCCTGG	GCTGG 1006 Db - 489 CAGGCTGCATGAAAATCACCAATGAGACCTTCCGTGGGGGGCGCCTCTA 548	m
Db 3473 TEACCECCCCECAGACGECTTGCTGCGGGGGGCCTCGGGCAAGCTGCGGCGGGGGG	IIII 0y 855 correaccaeccaeccaeccaeccaeccaeccaeccaeccae	
Qy 1007 ACCACAACCTGGATCACATCGCCGGAGGGCACCTTTGCAGACCTGCAGAAAC	Treeccc 1066 Db 549 CCTGGGCAACGCGATCCGCCACCACGCGCGCGCGCGCGCG	ŝ
Db 3533 GCGGCAACAGGCGCGCGCCCGGCGCCGGGCGCGGGGGGGG	3592 Qy 915 ATTGGAGGATCTCGCTCTCCTACAACCTCCATGGCCTGCGGGGACTCCGGGGACCTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGACTCCGGGGGGACTCCGGGGGACCTCCCCGGGGGACCTCCCGGGGGACCTCCCCCGGGGGACCTCCCGGGGGACCTCCCGGGGGACCTCCCCGGGGGACCTCCCCCCCC	974
QY 1067 GCCTGGATCTCACCTCCAATCGGCTGCAGAAGCTGCC 1103	Db 609 CCTGGAGCTCAAGCTGCAGGACCAACGAGGCACTGCCCCGCTGCCCTGCC 665	iv
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	Db 666 CCGCCTGCTGCTGCTGCGGGCCCCCAACAGCGCCTCCTGGCCCCGGCATCCT 72	ហ
KESULT 4 US-09-063-950-1	Qy 1035 GGCAC 1040	
; Sequence 1, Application US/09063950C ; Patent No. 6225085	Db 726 GGACAC 731	
; TITLE OF INVENTION: NOVEL LESG PROTEIN AND NUCLEIC ACID MOLECULES ; TITLE OF INVENTION: THEREFOR	AND USES RESULT 5 US-09-063-950-3	
; FILE REFERENCE: MEI-019 ; CURRENT APPLICATION NUMBER: US/09/063,950C	; Sequence 3, Application US/09063950C ; Patent No. 6225085	
; CURRENT FILING DATE: 1998-04-21 ; NUMBER OF SEQ ID NOS: 9	uglas A. ·	
	; TITLE OF INVENTION: NOVEL LRSG PROTEIN AND NUCLEIC ACID MOLECULES AND USES ; TITLE OF INVENTION: THEREFOR	
	BER :	
; ORGANISM: Homo sapiens ; FEATURE:	; CURRENT FILING DATE: 1998-04-21 ; NUMBER OF SEQ ID NOS: 9	
; NAME/KEY: CDS ; IOCATION: (160)(2178)		
0-00900-Т Лиату Магли	TYPE: DNA OPERATION SATIONS	
Best Local Similarity 46.6%, Pred. No. 8.9e-09; Marches 338, Conservative 0. Mismatches 370, Indels 9.		
	D 274 11S-09-063-950	
IIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIII	74 Query Match 2.5%; Score 79.4;	
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435	494 Db 95 AGCACAGAGAGAGTCTTCTGCACTGCCGCCAGGGGACCACGGTGCCCGCGGGCGG	54
135	188 Qy 620 GGCGGGCAGCTGCGCCTGCGCCGGCGGCGGCAACTTCATCATCATCATCACCCCCCGCCAGGACT	л
QY 495 GTTTGGCGTTGGCGTGGCGTGGCGCGGCGGCCGGGGTACTGGCCGGAATCT 	GAATCT 554 Db 155 CCGACACGGTGGGGCTGTACGTCTTTGAGAACGGCATCACCATGCTCGACGCAGGCAG	4

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Tue Jun 10 08:57:37 2003	Qy 680 TTGCCAACATGACGGGGCTGGTGGACCTGACCCTGTCCAGGAACACCATCC 739 Db 215 TTGCCGGCCTGCCGGGGCTGGTGGACCTGACCCTGCAGAACCAGCCACCC 739 Oy 740 AGCCCTTTTCTGTACCTGGAGCCTGGAACCCGGCAACCGGCCTGC 274 Oy 740 AGCCCTTTTCGGAGCCTGGAGAGCCTGGACCTGCAGAACCGGGCCTGC 274 Oy 740 AGCCCTTTTCGGAGCCTCGGAGAGCCTGGAGCCTGGCGAACGGGCCTGGCGATCGGC 799 Db 275 CCGGGGGGCTGCTGGGGGGGCCTCGGGGGGCCTGGGGGCCTGAGCGGCCAACGGGC 334 Oy 800 TGCCATTGGGGGGGGGGCCTCGGGGGGCCTGGGGGCCTGGGGGCCTTATGGGG 334 Oy 800 TGCCAAGATGGGCGGGGGCCTCGGGGGGCCTGGGGGGCCTTATGGGG 334 Oy 860 ACAACAACCCCAATGGGCGGGGGCCTTGGGGGGCCTTGGGGGGCCTTATCGTGG 394 Oy 860 ACAACAACCCAGTGGGGGGGCATGGGGGCCTTGGGGGCCTTGGGGGCGCTTTCGAGGCGCTTTCGGGGGGCGCTTTGGGGGGCGCTTTGGAGGCCTTTGGGGCGCTTTGGGGGCGCTTTGGGGGCGCTTTGGGGGCCTTGGAGGCCTTGGAGGCCTTCGGGGCGCCTCGGGGGGGCGCTTTGGGGGGCGCTTTGGAGGCCTTTGGAGGCCTTCGGGGCGCGCTTCGGGGGGGCATTGGG 914		RESULT 6 US-09-182-024A-1 Sequence 1, Application US/09182024A Patent No. 6342370 GENERAL INFORMATION: APPLICANT: Rajput, Human Slit Polypeptide and Polynucleotides Encoding TITLE OF INVENTION: Human Slit Polypeptide and Polynucleotides Encoding TITLE OF INVENTION: Same TITLE OF INVENTION: Same CURRENT APPLICATION NUMBER: US/09/182,024A CURRENT FILING DATE: 1998-10-29 PATOR FILING DATE: 1997-10-31 PATOR FILING DATE: 1997-10-31	PRIOR APPLICATION NUMBER: 60/096,420 PRIOR FLING DATE: 1998-08-13 NUMBER OF SEQ ID NOS: 5 SOFTWARE: Patentin Ver. 2.1 SEQ ID NO 1 LENGTH: 5176 TYPE: DNA ORGANISM: Artificial Sequence FEATURE: OTHER INFORMATION: DESCRIPTION OF Artificial Sequence:cDNA coding for OTHER INFORMATION: DESCRIPTION OF Artificial Sequence:cDNA coding for OTHER INFORMATION: DESCRIPTION OF Artificial Sequence:cDNA coding for US-09-182-024A-1	Query Match2.5%; Score 77.2; DB 4; Length 5176;Best Local Similarity51.8%; Pred. No. 9.56-08;Matches200; ConservativeOy700 GrGGACCTGACCAGCGAACACCATCAGCCCAGCCCATTACCTTTCTGGAC 759Oy700 GrGGACCTGACCGAGAAATAATATCACCAGGAACACCAGGCCTTTCCTTTCTGGAC 759Oy700 GrGGACCTGACCGGCAGAAATAATATCACCAGGAATGAGCCTTGGGGAGGAC 759Oy760 CTCGAGAGCCTGCCGCGCACAATAATAATCACCAGGATCACCAGGACTTCGCTGGGOy760 CTCGAGAGCCTGCGCACAATAATAATCACCAGGATCACCAGGACTACGGGGGGGG

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ORIGINAL SOURCE: ORIGINAL SOURCE: ORCANISM: homo sapiens INMEDIATE SOURCE: 17-18 week fetus INMEDIATE SOURCE: 17-18 week fetus INMEDIATE SOURCE: 4 INMEDIATE SOURCE: 4 INTER NAME AND INFORMATION: NUTHORS: HAWIN, MAY LOUISE NUTHORS: Lemmon, Vance INTELES HIAN'N, NATH INTER NAME INTER INATION: A functional testing of INTER INATION: Anne INTER INATION: Anne INTER INATION: A functional testing of INTER INATION: A functional testing of a functional testing of INTER INTER INTERFORMERS IN SEQ ID NO: 1108 to 3708 INTER INTERVINE INTERFORMERS IN SEQ ID NO: 1108 to 3708 INTERVINE INTERFORMERS IN SEQ ID NO: 1108 to 3708 INTERVINE INTERFORMERS IN SEQ ID NO: 1108 to 3708 INTERVINE INTERFORMERS IN SEC ID NO: 0.0026; INTERVINE INTERVINE INTERVINE INTERVINE INTERVINE INTERVINE INTERVINE INTERVINE INTERVINE INTERVINE INTERV	Qy1334TCATCACCCAGCACACACAAGTTGCTGGTTCTGGGGGGGG	RESULT 9 US-08-427-497E-3 US-08-427-497E-3 Sequence 3, Application US/08421497E Featur No. 5969124 GENERAL INFORMATION: A Method for Characterizing the TITLE OF INVENTION: A Method for Characterizing the TITLE OF INVENTION: A Method for Characterizing the TITLE OF INVENTION: A Method for Characterized Patent No. 5969124 TITLE OF INVENTION: Characterized Thereby Patent No. 5969124 TITLE OF INVENTION: Characterized Thereby COMMERS OF SEQUENCES: 44 COMMERS OF SEQUENCES: 44 COMMERS OF SEQUENCES: 44 COMMERS OF SEQUENCES: 44 COMMERS OF SEQUENCES: 44 COMMERSPECE INO SUPERIOR ADDRESSE ADDRESSEE: Fay Sharpe, Beall, Fagan, ADDRESSEE: Fay Sharpe, Beall, Fagan, ADDRESSEE: Fay STARE OF SOUTH ADDRESSEE FAY STARE OF SOUTH ADDRESSEE FAY SOUTH ADDRESSEE
	<pre>ISBUR 8 ISBOAL 197E-4 IS-00-427-497E-4 IS-00-427-497E-4 IS-00-427-497E-4 IS-00-427-497E-4 IS-00-5569124 CENERAL INFORMATION: Vance TITLE OF INVENTION: A Method for Characterizing the TITLE OF INVENTION: Nucleotide Sequence of LICAM and Patent No. 55969124 TITLE OF INVENTION: Nucleotide Sequence STREET: Suite 700 COUNTRY: U.S.A. ZIP: 4414-2518</pre>	COMPUTER READABLE FORM: MEDIUM TYPE: BLAKENCLE, 3:50 inch, 720 Kb WEDIUM TYPE: BLAKENCLE, 3:50 inch, 720 Kb WEDIUM TYPE: SCARABLE COMPUTER: Compage Prolinea 5100e OPERATING SYSTEM: DOS 5:0 SOFTWARE: ASCII CURRENT APPLICATION DATA: SOFTWARE: ASCII CURRENT APPLICATION NUMBER: US/08/427,497E FILLIG DATE: APPLICATION NUMBER: US/094,991 FILLIG DATE: APPLICATION ATA: APPLICATION NUMBER: 07/904,991 FILLIG DATE: June 26, 1992 ATTORNEY/AGENT INPORMATION: MAME: MIGHT, RICHARD APPLICATION NUMBER: 0.1993 ATTORNEY/AGENT INPORMATION: TELLERANTION NUMBER: 24,175 REGISTRATION SCHERTION: TELLEROWINICATION INFORMATION: TELLECOMMUNICATION INFORMATION: TELLECOMMUNICATION INFORMATION: TELLEROMINE (216) 801-5582 TIRLEROMINECATION INFORMATION: TELLEROMINE: (216) 801-5582 INFORMATION FOR SED ID NO: 4: ELENCET (216) 801-5582 TELLEROMINECATION INFORMATION: TELLEROMINECATION INF

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TITLE OF INVENTION: Nucleotide Sequence of LICAM and Patent No. 5872255 TITLE OF INVENTION: the Nucleotide Sequence TITLE OF INVENTION: the Nucleotide Sequence NUMBER OF SEQUENCES: 39 CORRESPONDENCE ADDRESS: 39 CORRESPONDENCE ADDRESS: 39 CORRESPONDENCE ADDRESS: ADDRESSES: Minnich & MAGE STREET: 1100 Superior Avenue STREET: Suite 700 CITY: Cleveland STREET: Olio	COUNTRY: U.S.A. ZIP: 44114-2518 COMPUTER READABLE FORM: MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb MEDIUM TYPE: escorable COMPUTER: Compage Prolinea 5100e OPERATING SYSTEM: DOS 5.0 OPERATING SYSTEM: DOS 5.0 CURRENT APPLICATION NUMBER: US/09/341.843B	ет. 10, 991 R 2 149	10N: 82 1:	PE: CDNA L: irrelevant URCB: Homo Sapiens L ISOLATE: 17-18 week fe CUISCE:	LIBRARY: Stratagene CUMA LIFTALY 350200 CLONE: synthesis of 4 clones PUBLICATION INFORMATION: AUTHORS: Hlavin, Mary Louise AUTHORS: Lemmon, Vance TTLLE: Molecular structure and functional TTLLE: Molecular burner and functional TTLLE: interspecies comparison.	L: GENOMICS : 11 416-423 1991 NT RESIDUES IN SEQ ID NO: 1 to 3 B-1 1.8%, Score 56.4;	<pre>Similarity 49.3%; Pred. No. 0.0029; 7; Conservative 0; Mismatches 151; TCATCACCAGCACACACAGTTGCTGGTGGGGGGGG TCATCACCAGCACACACAGTTGCTGGAGGGGGGGGGG</pre>
FILING DATE: April 24, 1995 CLASSIFICATION: 435 PRIOR APPLICATION: 435 PRIOR APPLICATION HATA: APPLICATION NUMBER: 07/904,991 FILING DATE: June 26, 1992 ATTORNEY AGENT INFORMATION: NAMB: MINICAN FICHARD 4 RECEISTRATION NUMBER: 24,175 RECISTRATION NUMBER: 24,175 RECISTRATION NUMBER: 24,175 RECISTRATION NUMBER: 24,175 TELEPHONE: (216) 861-5582 TELEPHONE: (216) 861-5582	TELERAX: (216) 241-1666 TELEX: (216) 980162 INFORMATION FOR SEQ ID NO: 3: SEQUENCE CHARACTERISTICS: LENGTH: 3189 acid TYPE: nucleic acid STRANDEDNESS: single TOPLOCGY: linear MOLECULE TYPE: nucleic acids HYPOTHETICAL: irrelevant	AMIL-SUNCE: 10 ORIGINAL SOURCE: ORGANISM: homo sapiens INDITUDAL ISOLATE: 17-18 week fetus IMMEDIATE SOURCE: IMMEDIATE SOURCE: 17-18 week fetus IMMEDIATE SOURCE: 17-18 week fetus CLONE: 3.1 PUBLICATION INFORMATION: AUTHORS: Hlavin, Mary Louise	AUTHORS: Lemmon, Vance TITLE: Molecular structure and functional testing of TITLE: Molecular structure and functional testing of TITLE: human LICAM: an interspecies comparison. JOURNAL: GENOMICS VOLUME: 11 ISSUE: 10 PAGES: 416-423 PAGES: 416-423 PAGES: 1991 ScoB-427-497E-3 S-08-427-497E-3	Overy Match 1.8%; Score 56.4; DB 2; Length 3189; Dest Local Similarity 49.3%; Pred. No. 0.0028; Matches 147; Conservative 0; Mismatches Matches 147; Conservative 0; Mismatches Oy 1334 TCATCACCCAGCACACACACACACACGCGGGGGGGGGGG	0y 1394 GCAAAGCCATTGGGGACCCCGGGCCCGATGGCTGGGTAGCCGCCTGG 1453 0y 1394 GCAAAGCCATTGGGGACCCCGGCCCCTTTCCACTGGGTAGGCCGGATGACCGCCTGG 1453 0y 1394 GCAAGGCCTTCGGGGGCCCCGGCCCGGTGGCTGGGCGGGGGGGG	1514 916 1574 1574	SULT 10 -08-341-843E Sequence 1, Patent No. 1 GENERAL INI APPLICANY

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PUBLICATION INFORMATION: PUBLICATION INFORMATION: AUTHORS: Lemmon, Mary Louise AUTHORS: Lemmon, Vance TITLE: Molecular sturcure and functional TITLE: tosting of human LICAM: an TITLE: tosting of human LICAM: an US-08-08-08-08-08-08-08-08-08-08-08-08-08-	Overy Match 1.8%; Score 56.4; DB 2; Length 3774; Duery Match 1.3%; Pred: No. 0.0029; Matches 147; Conservative 0; Mismatches 151; Indels 0; Gaps 0; Oy 1334 TCATCACCAGCACAAGTAGTGGTGGTGGGGGGGGGGGGG	SULT 12 SULT 12 SULT 12 Sequence 2, Application US/08427497E Retent No. 5969124 Sequence 2, Application US/08427497E Retent No. 5969124 TITLE OF INVENTION: A Method for Characterizing the TITLE OF INVENTION: Characterized Thereby NUMBER OF SEQUENCES: 44 NUMBER OF SEQUENCES: 44 ADDRESSEE: Minnich & MCKee STREET: Suite 700 CITY: Cleveland STREET: Suite 700 CITY: Cleveland STREET: Suite 700 CITY: Cleveland STREET: Suite 700 CITY: Cleveland CITY: Cleveland STREET: Suite 700 CONTTRY: U.S.A ZIP: 44114-2518 CONTTRY: U.S.A ZIP: 44114-2518 ZIP: 44114-2518 ZIP: 44114-2518 ZIP: 44114-2518 ZIP: 44114-2518 ZIP: 44114-2518 ZIP: 44114-2518 ZIP: 44114-2518 ZIP: 44114-2518 ZIP: 44144 ZIP: 4
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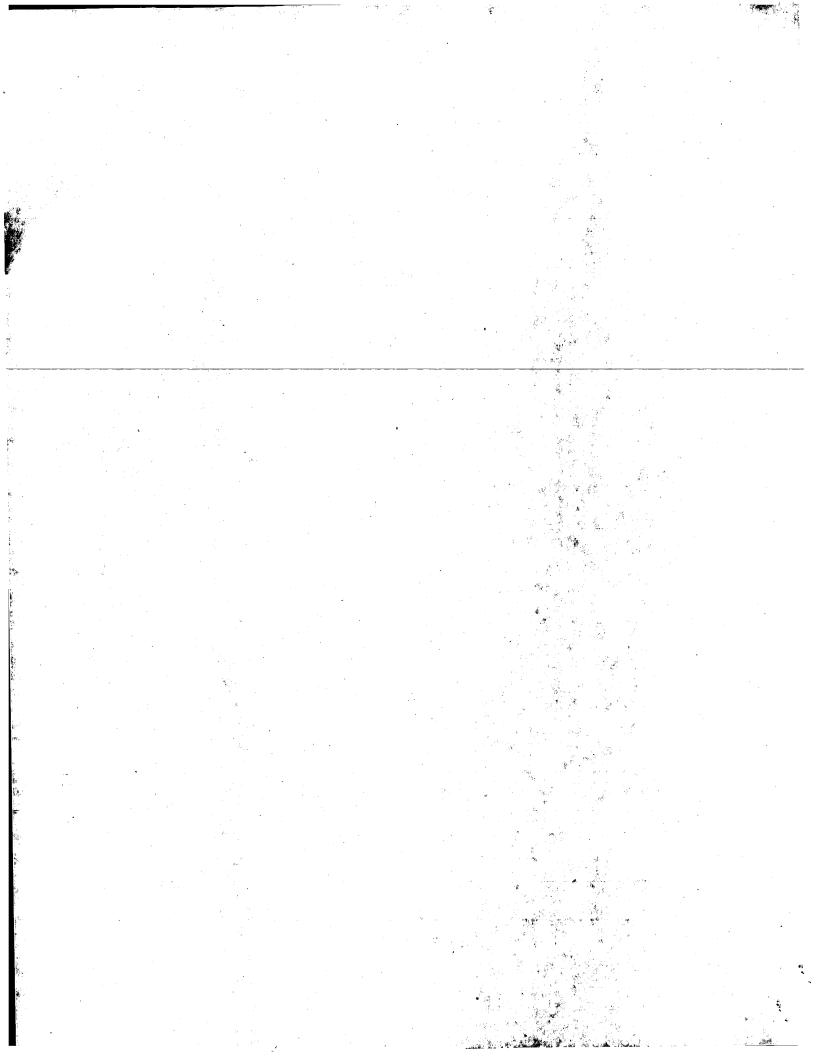
 ad,	Query Match 1.88; Socre 55.4; DB4; Length Jabey; Part Local Similarity 49, Hength Jabey; Matches 147; Conservative 0; Mismatches 151; Indels 0; Gaps 0; Db 1394 TCATCACCCGACACACACACACACTCACTCACTCACTCAC
ATTORNEY/AGENT INFORMATION: NAME: MILICH, Richard J. RUGESTSTRATION NUMBER: 24,175 REGISTRATION NUMBER: 24,175 REGISTRATION NUMBER: 24,175 REJERENCE/COCKET NUMBER: 24,175 REJERENCE/COCKET NUMBER: 24,175 TELEFONGUIC TOTON INFORMATION: TELEFONGUIC (216) 241-1666 TELERA: (216) 241-2016 TELERA: (216)	Obery Match 1.8%; Score 56.4; DB 2; Length 3774; Best Local Similarity 0; Gaps 0; Dest Local Similarity 0; Mismatches 131, Indels 0; Gaps 0; Matches 147; Conservative 0; Mismatches 131, Indels 0; Gaps 0; Dest Local Similarity 49.3%; Pred. No. 0.0029; Indels 0; Gaps 0; Matches 147; Conservative 0; Mismatches 141 11

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<pre>; TYPE: DNA ; OKGANISN: HOMO SAPIENS Usery Match Duery Match Suproversion Duery Match Set Local Similarity 54.11; Pred. No. 0.033; Best Local Similarity 54.11; Pred. No. 0.033; Best Local Similarity 54.11; Pred. No. 0.033; Matches 105; Conservative 0; Mismatches 99; Indels 0; Gape OV 644 CAACAATGACCACCACACACCACCTCACACAACAATCCACCACCACACCAC</pre>	Length 4203; Indels 0; Gaps 0; Accarcageceacarceagec 743	acatéteagéatéétes 144 tracagagagageses 803 	agcaccttatcgtgacaa 863 	· ·		2
ldows Version 2 3/866,757 31 31 31 N:	<pre>1.6%; Score 51.6; DB 2; Length 4203; imilarity 54.1%; Pred. No. 0.033; ; Conservative 0; Mismatches 89; Indels 0; Gaps caAcArGaCGGGGGGGGGGGGGGGGCCTGGCCCAGGAACACCATCAGCCAGC</pre>	ciarcréséceacctracaégésérérésécérésérerciaétaitéreaacériééerea crititeriteresaccresaasserecsectecerecaretaacascaaresseres 	AAGCCTTGGGGAGGACACCCTCGGGGGCCTGGTCAACAA 	 TAATAACTTGGGGG 278	SULT 15 SULT 15 Sequence 1, Application US/09153593A Patent No. 6174994 GENERAL INFORMATION: APPLICANT: ELSHOURBACY, NABIL A APPLICANT: LL, XIAOTONG	AFFLICANT: BEKGSMA, DEKK J TITLE OF INVENTION: NOVEL JTM RECEPTOR (H2CAA71) FILE REFERENCE: GH-70055-1 CURRENT APPLICATION NUMBER: US/09/153,593A CURRENT FILING DATE: 1998-09-15 EARLIER APPLICATION NUMBER: 08/866,757 EARLIER FILING DATE: 1997-05-30 NUMBER OF 5EO ID NOS: 4



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621.8 19.8 2855 9 US-10-243-409-99 621.8 19.8 2855 9 US-10-243-403-99 621.8 19.8 2855 9 US-10-245-621-99 621.8 19.8 2855 9 US-10-245-621-99 621.8 19.8 2855 9 US-10-243-095-99 621.8 19.8 2855 9 US-10-245-185-99	19.8 2855 9 US-10-245-427- 19.8 2855 9 US-10-245-473- 19.8 2855 9 US-10-245-770- 19.8 2855 9 US-10-245-770- 19.8 2855 9 US-10-245-877-	19.8 2855 9 US-10-246-976- 19.8 2855 9 US-10-243-320- 19.8 2855 9 US-10-242-743- 19.8 2855 9 US-10-242-845- 19.8 2855 9 US-10-242-845- 19.9 2855 9 US-10-242-845-	19.3 1653 10 05-09-697-214 17.6 1653 10 US-09-897-214 15.2 8269 9 US-10-071-951- 15.2 8269 9 US-10-071-961-	15.2 8269 9 US-10-103-313- 15.2 8269 10 US-09-764-887 15.2 8269 10 US-09-764-887 15.2 8269 10 US-09-764-887	15.2 · 8269 10 US-09-764-853 14.7 1872 10 US-09-768-826 8.7 493 9 US-09-918-995- 6.7 493 9 US-09-918-995-	6.5 432 10 US- 6.5 432 10 US-	<pre>a application US/09815626 application US/09815626 application US/09815626 glucksmann, Maria Alexan VEWTION: 333957 ANOVEL VEWTION: 333957 ANOVEL VEWTION: 333957 ANOVEL VEWTION: 333957 ANOVEL VEWTION: 333957 ANOVEL VEWTION: 333957 ANOVEL VEWTION: 333957 ANOVEL NEE: 10448-031001 ILCATION NUMBER: US 60/191 G DATE: 2000-03-23 CATION NUMBER: US 60/191 EQ ID NOS: 17 astSEQ for Windows Versi 87 astSEQ for Windows Versi 87 Andom sapiens 97 Andom sapiens 97 Andreaded corded corded GTTGGCCGGCGGGGGGGGGGGGGGGGGGGGGGGGGGGG</pre>	
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GenCore version 5.1.6 Copyright (c) 1993 - 2003 Compugen Ltd. OM nucleic search, using sw model	Run on: June 8, 2003, 18:21:58 ; Search time 411 Seconds (without alignments) 10705.950 Million cell updates/sec	Title: US-09-831-846-1 Perfect score: 3144 Sequence: 1 gcctggctccctcgctgagcggctttggattgcttatg 3144	Scoring table: IDENTITY_NUC Gapop 10.0 , Gapext 1.0	Searched:	Minimum DB seg length: 0 Maximum DB seg length: 200000000	Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries	Database : Published Applications Ma: Database : Prodatas//pubpan/S07_PUBCOMB.seq: 2: /cgn1_6/prodatas//pubpan/S07_NEW PUB.seq: 2: /cgn1_6/prodatas//pubpan/S06_NEW PUB.seq: 2: /cgn1_6/prodatas//pubpan/S06_NEW PUB.seq: 2: /cgn1_6/prodatas//pubpan/S06_NEW PUB.seq: 2: /cgn1_6/prodatas//pubpan/S06_NEW PUB.seq: 2: /cgn1_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn1_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn2_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn2_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn2_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn2_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn2_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn2_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn2_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn2_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn2_6/prodatas//pubpan/S06_PUBCOMB.seq: 2: /cgn2_6/prodatas//pubpan	

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1375 / 1885 / 1435 (1945 (1495 (1495 (2005 (1555)	5 ATGAT 5 ATGAT 5 ATGAT 5 ATGAT 9 GTGAO 9 GTGAO 9 GTCGO 9 GCCGG 9 GCCGG	RESULT 2 US-09-815-626-1 Sequence 1, Application US/09815626 Sequence 1. Application US/09815626 Sequence 1. US20020076752A1 GENREAL INFORMATION: APPLICANT: Glucksmann, Maria Alexandra APPLICANT: Glucksmann, Maria Alexandra APPLICANT: Glucksmann, Maria Alexandra TITLE OF INVENTION: 33395, A NOVEL HUWAN LEUCINE-RICH REPEAT TITLE OF INVENTION: 33395, A NOVEL HUWAN LEUCINE-RICH TITLE OF INVENTION: 33995, A NOVEL HUWAN LEUCINE-RICH TITLE OF INVENTION: 33995, A NOVEL HUWAN LEUCINE-RICH FILE REFERENCE: 10448-03100 FULE REFERENCE: 10448-03101-03-23 PRIOR APPLICATION NUMBER: US 60/191, 963 PRIOR APPLICATION NUMBER: 2000-03-24 NUMBER OF SEQ ID NOO: 17 SEQ ID NO 1 LENCTH: 258 LENCTH: 258 CORPWARE: FastSEQ for Windows Version 4.0 SEQ ID NO 1 CURRENT: 258 CRANTE: PANE	<pre>FFEATORS: MANE/KEV: CDS LOCATION: (435)(2318) US-09-815-626-1 US-09-815-626-1 US-09-815-626-1 US-09-815-626-1 US-09-815-626-1 Best Local Similarity 61.3%, Pred: No. 9.98-166; Best Local Similarity 61.3%, Pred: No. 9.98-166; Db 497 GACGACGACGACGACGACGACGACGACGACGACGACACGAGACATCACTA OV 567 GGGGACCCACGCCCAGGGGCAGGCCACGACGACGACGACG</pre>
Db 303 cgccrrrdccgacccrgcgacccrgcgraccrfgargchaccgcraccrc 362 av 807 ccrrfdgggacgacccrcgcgggccrgcrgcacccrfgargachaccg 362 av 807 ccrrfdgggacgacacccrcgcgggccrggrgacchaccgargaachacga 866 bb 363 acrdgdgggacgacacccrcgcgggccrggrgaggachacggachacggargaachacga 866 bb 363 acrdgdgggggggggggggggggggggggggggggggggg	463 987 543 543 1047 1047 603 1107 663 1107 1107	1227 783 1287 1287 843 943 903 903 903 963	Db 1023 CGGFGCUTCCCCATTACTACTACTACTACTACTACTACTACTACTAC

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1157 1217 APPLICANT: Wood William APPLICANT: Wood William APPLICANT: Wood William APPLICANT: Wood William APPLICANT: ForgiSherman TITLE OF INVENTION: ACIDS ENCODING THE SAME TITLE OF INVENTION: ACIDS ENCODING THE SAME CURRENT FILLS REPERANCE: P3630R1C1 CURRENT FILLS REPEAUED: NUMBER: US/10/245,107 CURRENT FILLNG DATE: 2002-09-16 PRIOR FILLNG DATE: 2002-09-16 PRIOR FILLNG DATE: 2002-09-16 PRIOR FILLNG DATE: 1997-09-17 PRIOR FILLNG DATE: 1998-06-22 PRIOR PELICATION NUMBER: 60/08601 PRIOR FILLNG DATE: 1998-06-22 PRIOR FILLNG DATE: 1998-06-22 PRIOR FILLNG DATE: 1998-06-25 PRIOR PRILCATION NUMBER: 60/090657 PRIOR FILLNG DATE: 1998-06-25 PRIOR PRILCATION NUMBER: 60/090697 PRIOR FILLNG DATE: 1998-06-25 PRIOR RELLNG DATE: 1998-06-25 P 4 038 CGCCTTCGCCGGGCCCTGCGCGCCCTGCCTGCACCGGCTGACCTC 1097 806 866 926 566 857 686 746 GGACCTCCTACAACCAACCATGGCCTGGCGGGGGCTCCGTGCGACGCCATGGTCAA 986 626 917 977 CATGACGGGGCTGGTGGACCTGACCTGTCCAGGAACACCATCAGCCACATCCAGCCCTT
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1644 1824 2106 2166 1944 2226 1406 1694 1466 1814 1586 1874 1934 1884 2004 AAGGACCGCTGTCTATGACAATGGCACCCTGGACATCTTCATCACCACCATCTCAGGACAG 1526 2046 GGACCCAGAGGCCCCGTGTGCGTTGGGTGTCACCCCCAGGGCCGGCTGCTAGGCAACTCAAG 1754 GGACGGGGATCCTGATCCTCACCCCACCCTCCGCTGCTCTGCTTCTGCCAAGGTGGC 1994 TTCACCAAGGCTGACTACCCGCAGTGCCAGTCCATGCACAGGCCAGGTTCTGGGCGGCGCCC 2064 GGACCCCCAGCCCCTTATCCACTGGGTAGCCCCCGATGACCGCCTGGTAGGGAACTCCTC TGGCATCTTCACCTGCATTGCGGCCCAATGCAGCTGGCGAGGCCACAGCTGCTGCTGGGGGGCT CTCCATCGTCCAGCTGCCACCTCAGCAACAGCACCAGCCGCGCA - - CTGCACCCCCCCAAG ceacacrececcecera-----ceaaccerecerecereacreacreacreace ACAGCTGCTGCTGTTGTCCAGTGGCCGGATCAGCGGGCCTATCCCGGGCATCCGCATGTACCAG TGGTGCCTTCACCTGCATTGCTGCCAATGCTGCCGGAGAGGCCCACGGCCATGGTGGAGGT GACTGTGGGGTCCCCCACCACCTCCTCAGCTAGCCAACAGCACCAGCTGTGTGACCCCCCCGCG cecréerrecreaceaceresectracecercaceceaceracearcreacerece 1945 ATGTGGGATGACACGCCACGACACTCACGGCCCACCAACATCGTGGGCTGCGCCCAGTTC CACACACAAGTTGCTGGTTCTGGAGGGGCCAGGGCGGGCCACACACTCAAGTGCAAAGCCATTGG ACCTCGGCCCTGGTCAAGTGGTCTGTCAGCAAGTCAGCACCCCGGGTGAAGATGTACCAG CTGCAGTACAACTGCTCTGACGATGAGGTACTGATTTACAGGATGATCCCAGCCTCCAAC ____ 1575 1635 1695 1467 1755 1587 1875 1935 1705 1995 1765 2047 1825 1885 2167 2005 1347 1407 1527 1815 g 5 q 8 dd \mathcal{S} g δ q δ q \mathcal{S} q δ q δ q δ q 8 g \mathcal{S} q \mathcal{S} q δ q δ g 8 q 5 q \mathcal{S} à

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507 GTTTGCCGTGGTCGTCGCCCCAAGTACTGTGTCTGCTGCGCCAAGTATCTGAGTCCL 300 11111111111111111111111111111111111	798 GTCAGCUACACCCAGCCCCCCCAGGGGGCCGGCCGGCCGGGGGGGG		627 AGTGGAGCTGGGCGGGGAACTTCATCATCACCACGACGGCGGCGACALITUCAN 00 1	687 CATGAGGGGGGGGGGACCTGACCTGTCCAGGAACACCATCAGCCACTT 746 687 CATGAGGGGGGTGGACCTGACCCTGTCCAGGAACACCATCAGCCACATCCAGCCCTT 746 111111111111111111111111111111111111		1038 CGCTTCGCCGACCTGCGGGCCCTGCGTGCCCTGCACCGGCGCGCGC	<pre>807 CCTTGGGGAGACACCTCCGGGGCCTGGTCAACCTGGGGCCTTATUCHAAAAAAA 90 807 CCTTGGGGAGACACCTCCGGGGGCCGGGCCGGGCCGGGC</pre>			927 GGACCTCTCCTACAACCTCCATGGCCTGCGGAGGGATGGGGCGCGGAGGATGAGCATGGGGCGATGAGGCGATGGGGGGAGGGGGGGG		987 CCTCCACCAGCTGGACCACAACCTGGTGGALCALCGCGAGCACAACCTGGTGGGCTGGAACCTGGTGGGCCTGGAACCTGGTGGGCTGGAACCTGGTGGGCGTGGAGCTGCACAAACCTGGTGGGGCTTGAACCTGGTGGGGCTGGAACCTGGTGGGGCTTGAACCTGGTGGGGCTTGAACCTGGTGGGGCTGGAACAACCTGGTGGGGCTTGAACCTGGTGGGCTGGAACAACCTGGTGGGGCTTGAACCTGGTGGGCTGGAACAACCTGGTGGGCTGGAACAACCTGGTGGGCTGGAACAACCTGGTGGGCTGGAACAACAACAACAACAACAACAACAACAACAACAACAA	1047 AGACCTGCAGAAAACTGGCCCGGCCTGGATCTCACCCCCCAATCGGCTGCAGAAGCTGCCCCC 1106	CGCCTGCACAGCTGGCCCGGCTGGACATGACCTCCAACCGCCACAATCCCACC	1107 TGATCCCAFCTTTGCCGGGCTTCGGCTTTGACGGCACGCCTTTGCCCCACC 1166		1167 CTTGTCCTTTAGTTTTTGGGGGTAACCCACTTCATGGAATTVEVANCILLUCUGUGU	TCGCCTGGCGGGGGGGGGGGGCGGGCGGGCGGCGGCGGCG	1287 CTACTTCTGGCATGAGGAGGAGGAGGAGTTGTGTGGCGGGGCGCCCTCTCATCACCCCGGCA 1346 		169	CTCACCACCTGTGCCCGCGCGGGCGGGCGGCCGGCCGGCC	1407 GGACCCCGGCCCTTATCCACTGGGGGGGGGGGGGGGGGG		146 ANGARCAGGGGGGCTTCCCCAATGGGAGGCTGGAGGCTGGTGCTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT	1527 TGGTGCCTTCACCTGCATTGCTGCCGGGGGGGGGGGCCACGGCCATGGTGGGGGT	1815 TGGCATCTTCACCTGCGTTGCGGCCCAATGCAGCTGGCGAGGCCAGCTGCTGTGGGGGCT	1587 CTCCATCCAGCTGCCACACCTCAGCAACAGCACCAGCCGCACTGCACCCCCCAAG 1644
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PRIOR FILING DATE: 1997-09-17 PRIOR APPLICATION NUMBER: 60/0650346 PRIOR APPLICATION NUMBER: 60/065027 PRIOR APPLICATION NUMBER: 60/065027 PRIOR FILING DATE: 1997-11-24 PRIOR FILING DATE: 1997-10-24 PRIOR FILING DATE: 1998-03-27 PRIOR FILING DATE: 1998-05-22 PRIOR APPLICATION NUMBER: 60/087607 PRIOR APPLICATION NUMBER: 60/087607 PRIOR APPLICATION NUMBER: 60/087607 PRIOR APPLICATION NUMBER: 60/089601 PRIOR APPLICATION NUMBER: 60/089601 PRIOR FILING DATE: 1998-06-32 PRIOR APPLICATION NUMBER: 60/089601 PRIOR FILING DATE: 1998-06-34 PRIOR FILING DATE: 1998-06-24 PRIOR FILIN	<pre>; TYPE: DNA ; TYPE: DNA ; ORGANISM: HOMO Sapien US-10-245-771-99 Ouery Match 19.8%; Score 621.8; DB 9; Length 2855; Best Local Similarity 61.3%; Pred. No. 1.3e-162; Matches 1078; Conservative 0; Mismatches 662; Indels 19; Gaps 4; Oy 507 GTTTGCCGTGGTCGACGCTCGCCGAGGTACTGGCGGGAATCTGTCGGGTCGCT 566 Db 798 GTCAGCCACACCAGGGCGGGCGGGCGGGGGGGGGGGGGG</pre>	1038 807 867 867 927 927 927 1278 1278 1335 1107
1875 Gactroredestructedscretestestestestestestestestestestestestes	Db2167 CGCTCGTTCCTGGCGGGCCGGGCCGGGCCCTCGGCTCGCCCCCC	RESULT 6 US-10-55-711-9 Sequence 99, Application US/10245771 Fublication No. US20030069781A1 Sequence 99, Application US/10245771 Fublication No. US20030069781A1 GENERAL INFORMATION: APPLICANT Baker, Kevin APPLICANT Failoward(f.Ellen APPLICANT Filvaroff.Ellen APPLICANT Foldi, J. Cirristopher APPLICANT Goddard, Judrey APPLICANT Goddard, Judrey APPLICANT Gurney, Austin APPLICANT Gurney, Austin APPLICANT Foldi, J. Cirristopher APPLICANT Foldi, J. Cirristopher FILE REFERENCE: P3630R1C9 FILE REFERENCE: J002-07-18 FRIOR APPLICATION NUMBER: 10/197942 FRIOR APPLICATION NUMBER: 60/059114

Db 2527 CCCGCCCCGGAGCCCGCGG 2545	RESULT 7 US-10-245-851-99 Sequence 99, Application US/10245851 Publication No. US20030068782A1 GENERAL INFORMATION:	APPLICANT: Baker,Kevin APPLICANT: Baker,Kevin APPLICANT: Filvaroff,Bllen APPLICANT: Goddard,Audrey APPLICANT: Goddard,Audrey	APPLICANT: Gurney, Austin APPLICANT: Smith, Victoria APPLICANT: Stephan, Jean-Phillippe APPLICANT: Watanbe, Colin APPLICANT: Wood, William	APPLICANT: Zhang,Zemin APPLICANT: Pong,Sherman TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERENCE: P363/OR1C93	CURRENT APPLICATION NUMBER: US/10/245,031 CURRENT FILING DATE: 2002-00-16 PRIOR APPLICATION NUMBER: 10/197942 PRIOR FILING DATE: 2002-07-18	PRIOR APPLICATION NUMBER: 00/00111 PRIOR FILING DATE: 1997-09-16 PRIOR APPLICATION NUMBER: 60/063046 PRIOR FILING DATE: 1997-10-24 PRIOR FILING DATE: 1997-10-24	PRIOR APPLICATION VUMBER: 000000 PRIOR FILING DATE: 1997-11-00 PRIOR APPLICATION NUMBER: 60/079689 PRIOR FILING DATE: 1988-03-27 PRIOR FILING DATE: 1988-03-27	PRIOR APPLICATION NUMBER: 92700170 PRIOR FILING DATE: 1998-05-02 PRIOR APPLICATION NUMBER: 60/087607 PRIOR FILING DATE: 1998-06-02	APPLICATION NUMBER: FILING DATE: 1998-06 APPLICATION NUMBER: FILING DATE: 1998-06	PRIOR APPLICATION NUMBER: 90/030055 PRIOR FILING DATE: 1998-06-25 Remaining Prior Application data removed - See File Wrapper or PALM. NUMBER OF SEQ ID NOS: 116	; SEQ ID NO 99 ; LENGTH: 2855 ; TYPE: DNA ; ORGANISM: Homo Sapien	ה. שיי	MATCHES 10/8; CONSELVALIVE 0, ALLONGETACTIGETERCE 507 GTTTGCCGTGGTCGACGCCTGCCCCAAGTACTGTGTGTCTGCC	567	858 627	- 918 687 010	
Tue Jun 10 08:57:37 2003 1167 CTTGTCCTTTAGTTTTGGGGGGTAACCCACTTCACTGCAATTGTGAGCTTCTCTGGCTGCG 1226 1167 CTTGTCCTTTAGTTTTGGGGGGGTAACCCCACTTCACTGCAAGCTTCTCTGGGCGGGGTAGCG 1214 1167 CTTGGTCGGCGGGGTAACCCCACTGCAACTGCAAGCTGGTGGGCTGCG 1514	7 Gaggerreagedgargecreggaraccreggaraccregggggggggggggg		1635 CTCACCTCTGGCTGTGGCTGGCCGGGCTGCCTGCGGGGGGGG	GATGG	5 3	1587 CTCCATCGAGCAGCACCTCAGCAACAGCAGCGGCGCACTGCACCCCCCAAG 1644 1875 111 111 111 1875 GACTGTGGGTCCCCCACCACCTCGCTAGCCAGCAACAGCACCAGCTGTGACCCCCGGG 1934		1705 GGCGGGAGGCCTCCCCGGGAACGGGCTGTGTGTGTGTGTG	1765 ACCTCGGCCCTGGTCAAGTGGTCAGCAAGTCAGCACCCCGGGTGAAGATGTACCAG 1824 17 1	1825 CTGCAGTACAACTGCTCTGACGATGAGGTACTGATTACAGGATGATCCCAGCCTCCAAC 1884 	<pre>1885 AAGGCCTTGGTGAACAACAACAAGGGAACTGGGAACTGGACTTGTGTGTG</pre>	CCAGTTC CCGCTTC	2005 TTCACCAAGGCTGACTACCGGCAGTGCAGTCCAGGCCAGCCA	2065 ATGATCCTGGTCATCGGGGGGCATCATCGTGGCCACGCTGCTGGTCATCCTC 2124 111111 1 1 1 1 1 1 1 1	2125 ATGGTGGGTACAAGGTCTGCAAGGGCCCCGAGGGCGGGCAAGATGGCGGGGC 2178 1 2407 CTAATGGGCTACAAGGTGCAGGGGGGGGGGCCAGGCCAAGGGCCAAGATTCCGGGCT 2466	2179 GTGAGCAATGTGTACTGGCAGAGCGAACGGGGGCGCGGGCGCGCGC	2239 GCCGGGGGCCCGCGCAGG 2257

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Qy 1825 CTGCAGTACAACTGGCTGAGGAGGGGGGGGGGTGATTACAGGATGATCCCAGCCTCAAC 1894 Db 2107 ATCCAGTACAACTGGCTGAGGATGAGGTACTGATTACAGGATGATCCCGGCGGGGGGGG	2287 TCCACCGAACCTGCGCCGCGCGGGGGGGGGGGGGGCGCGCGC	Db 2467 GTTAGCAGGGTTGCTCCCAGACCAACGGGGCCCTGGGCCCCACGCCCGCC	GENERAL INFORMATION APPLICANT: BALEY, Kevin APPLICANT: BALEY, Kevin APPLICANT: Elicancy Ent APPLICANT: Goddard, Audrey APPLICANT: Goddard, Audrey APPLICANT: Gurmey, Austin APPLICANT: Swith, Victoria APPLICANT: Swith, Victoria APPLICANT: Swith, Victoria	APPLICANT: Wood, William APPLICANT: Wood, William APPLICANT: Zhang, Zemin APPLICANT: Zhang, Zemin APPLICANT: PONG, Sherman TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC FILE REFERENCE: P3630R1C70 CURRENT APPLICATION NUMBRE: US/10/245, 883 CURRENT FILING DATE: 2002-09-16 PRIOR APPLICATION NUMBRE: 10/197942 PRIOR APPLICATION NUMBRE: 10/197942	PRIOR APPLICATION NUMBER:60/059114PRIOR FILING DATE:1997-09-17PRIOR FILING DATE:1997-09-17PRIOR FILING DATE:1997-10-17PRIOR FILING DATE:1997-10-17PRIOR FILING DATE:1997-11-10PRIOR APPLICATION NUMBER:60/05627PRIOR APPLICATION NUMBER:60/079689PRIOR RTLING DATE:1998-03-2PRIOR RTLING DATE:1998-05-22PRIOR RTLING DATE:1998-05-22PRIOR APPLICATION NUMBER:60/087607PRIOR APPLICATION NUMBER:60/08507PRIOR PRILCATION NUMBER:60/08507PRIOR PRILCATION NUMBER:60/080557PRIOR PRILCATION NUMBE
	<pre>927 GGACCTCCTACAACACCTCCATGGCCTGCGGGGCATCGGACGCATGGTCAA 986 111111111111111111111111111111111111</pre>	1395 CGACCCACTUTTCTCCCGGCTGCCTGCTGCCAGGCCCGGGGGCTCGGGCTCTGG CGACCCACTTTAGTTTTGGGGGTAACCCCTGCTGCAATTGTGAGGTTGTGGGGGGGG	1287 CTACTTCTGGCATGGGGGGGGGGGGGGGGGGGGGGGGGG	<pre>1695 GaAccragacccccraftGcfrgtCaccccagaccfccraftGcAAcrcaag 1754 1467 AAGGACCGCTGTCTATGACAATGGCACCCTGGAGCTCATCACCCACACTCAAGGAACTCAAG 1754 1467 AAGGACCGCTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT</pre>	<pre>1587 CTCCATCGFTCCAGCTGCCACCAGCACAGCACCAGCCAGCCAGCCCCCCAAG 1644 1875 GACTGFTCGGTCCCCCCCCCCCCCCGCCAGCTGGCCCCCCGGCG 1934 1645 TCCCGGCTCTCGACCTCGGCTGGCTAGCCAGCCAGCCAGGCTGGGC 1934 1635 GGCGGGGATCGTCGCTCCAGCTCGGCTAGCCAGCCGGGGGGGG</pre>

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APPLICANT: Stephan, Jean-Phil APPLICANT: Watanbe, Colin APPLICANT: Wood, William APPLICANT: Zhang, Zemin	OF	NT	A E A	44	£⊾ ∧⊈ I	£⊾ 4ζ I																				- ·						

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NUMBER: 10/001054 2001-11-30 NUMBER: 10/052586 2002-01-15 NUMBER: 10/081056 NUMBER: 10/081056 NUMBER: 10/119480 NUMBER: 10/119480 10/202-04-09 10/8%; Score 621.8; DB 9; Length 2855; 10/202-04-09 10.8%; Score 621.8; DB 9; Length 2855; 10/202-04-09 10/202-04-04-04 10/202-04-04 10/202-04-04 10/20	CGTGGTCGACGCCTGC	condisector condeged the transmission of the second		second and a second and a second a se	UCCUGUIGUALCIAGAGCTICCTGCTGCCTGCCTGCCTGCCAAG 80 TTGGACCTCCGGGGCCTCCCTGCTCTTGACAGCCAATCGGGCTGCCCAAG 80 	cccccaccreccedecccredurence and a contraction and a second and a second a s	Construction of the constr	redcegearcecagargactrrrgaggactrccrecreacartgaggarcr 926 	TCTCCTACAACCTCCATGGCCTGCGGGGGGGGCTCCGTGCGGG	TCTCCTACAACATCGAGCAGCAGCTGCCTGGGGGGGGGCUCUGGGGUCUCUGGGCAGCACCTTGC 104	2	TGCAGAAACTG	redacader ideococoso regenerator contractor and a contrac		CCTTTAGTTTTGGGGGGTAACCCACTTCACTGCAATTGTGA	GTGCTGGGCGTTTGGCGGGGAACCCCCTGCACTGCGAGCTGGGTGTGGGTGCG 101	CTCGAGGGGAGGAGGATGACCAGGAAACCAGGGAGGGGGGGAGGGA	TTTTTGGCATGTGCGCGCGCGCGCGCGCGCCCCCCCCCGGCA 13	THUR CONSTRUCTION OF THE TOTAL CONSTRUCTION OF THE TOTAL OF TOTAL O	CACAAGTTGCTGCTGGTGGGGGGGGGGGGGGGGGGGGGG	CCAdCTCTGGCTGTGCCCGCAGGTCGGCCGGCTGCCCTGCC
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APPLICANT: Stephan, Jean-Phillippe APPLICANT: Watanbe, Colin APPLICANT: Watanbe, Colin APPLICANT: Wood, William APPLICANT: Zhang, Zeman TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC FILE REFERENCE: PJ630RLC15 FULREWT APPLICATION NUMBER: US/10/238,283 FRIOR APPLICATION NUMBER: US/10/197942	The second secon	<pre>-10-238-283-99 Juery Match 19.8%; Score 621.8; DB 9; Length 2855; Duery Match 19.8%; Score 621.8; DB 9; Length 2855; Best Local Similarity 61.3%; Pred. No. 1.3e-162; Matches 1078; Conservative 0; Mismatches 662; Indels 19; Gaps 507 GTTTGCCGTGGGCGGGCGCGCGCGCGGCGGGGGGGGGG</pre>	Db 1038 CGCCTTGGCGAGCTGGGGGGCCTGGGTGGCTGGATGGACGGCTGACCTC 1097 Qy 807 CCTTGGGGGGGGGCGGGGGGGGGGGGGGGGGGGGGGGG
Qy 1407 GBACCCCAGCCCCTTATCCACTGGGTAGCCCCCGATGACGCCTGGTAGGGAACTCCTC 1466 Db 1695 GGACCCCAGGCCCCTTATCCACTGGGTAGCCCCCGATGACGGCTGGTAGGGAACTCCTC 1466 Db 1695 GGACCCCGTGTGCGTTGGGTAGCGCTCCGGGGGGGCAGCTCCAAG 1754 Qy 1467 AAGGACCGCTGTGCGTTGGCGGGTGTGGGGGCCGGGGCAACTCAAGG 1754 Qy 1467 AAGGACCGCTGTGATGACAATGGCACCCCGGGGGGGCGGGC	<pre>1587 CTCCATCGTCGCTGCTACCATCAGCAACAGCAGCGGGGGGCTGCGCCCCAAG 1875 GACTGTGGGTCCCCCACCATCACTCAGCTAGCAGCGGGGGGGG</pre>	0y1945ATGTGGGATGACACGCCCAGCCACCACCATCGTGGGCTGGGCTTC200410111111111111111111112111111111111111111113111111111111111111114111111111111111111115111111111111111111116111111111111111111117111111111111111111118111111111111111111119111 </td <td>RESULT 11 US-10-238-299 Sequence 99, Application US/10238283 Fullcation No. US:0030073190A1 GENERAL INFORMATION: APPLICANT: Baker, Kevin APPLICANT: Baker, Kevin APPLICANT: Goddard, Audrey APPLICANT: Goddard, Audrey APPLICANT: Grimaldi, J. Christopher APPLICANT: Grimaldi, J. Christopher APPLICANT: Gurney, Austin APPLICANT: Smith, Victoria</td>	RESULT 11 US-10-238-299 Sequence 99, Application US/10238283 Fullcation No. US:0030073190A1 GENERAL INFORMATION: APPLICANT: Baker, Kevin APPLICANT: Baker, Kevin APPLICANT: Goddard, Audrey APPLICANT: Goddard, Audrey APPLICANT: Grimaldi, J. Christopher APPLICANT: Grimaldi, J. Christopher APPLICANT: Gurney, Austin APPLICANT: Smith, Victoria

Page 15

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Qy2065ATGATCCTGGTCATCGGGGGGCATCATCGTGGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGTCGT	RESULT 12 US-10-238-370-99 Sequence 99, Application US/10238370 Publication No. US200073191A1 GENERAL INPORMATION: APPLICANT Baker,Kevin APPLICANT Eaton,Dan APPLICANT Goddard,Audrey APPLICANT Goddard,Audrey APPLICANT Gruney,Austin APPLICANT Gurney,Austin APPLICANT Swith,Victoria APPLICANT Stephan,Jean-Phillippe APPLICANT Stephan Stephan Stephan Stephan Stephan Stephan Stephan Stephan Stephan S	FILE REFRENCES P3630RLC10 CURRENT FILING DATE: P3630RLC10 CURRENT FILING DATE: 10/197942 PRIOR APPLICATION NUMBER: 10/197942 PRIOR APPLICATION NUMBER: 10/197942 PRIOR APPLICATION NUMBER: 60/059114 PRIOR FILING DATE: 1997-09-17 PRIOR FILING DATE: 1997-09-17 PRIOR FILING DATE: 1997-00-24 PRIOR FILING DATE: 1997-10-26 PRIOR APPLICATION NUMBER: 60/065027 PRIOR APPLICATION NUMBER: 60/065027 PRIOR APPLICATION NUMBER: 60/065027 PRIOR APPLICATION NUMBER: 60/07509 PRIOR APPLICATION NUMBER: 60/07509 PRIOR APPLICATION NUMBER: 60/08478 PRIOR APPLICATION NUMBER: 60/08478 PRIOR APPLICATION NUMBER: 60/08478 PRIOR APPLICATION NUMBER: 60/087607 PRIOR APPLICATION NUMBER: 60/087607 PRIOR APPLICATION NUMBER: 60/087607 PRIOR APPLICATION NUMBER: 60/087607	PRIOR FULION NUMBER: 60/090557 PRIOR FULION NUMBER: 60/090557 PRIOR FULING DATE: 1998-06-24 PRIOR APPLICATION NUMBER: 60/090689 PRIOR APPLICATION NUMBER: 60/090689 PRIOR FILING DATE: 1998-06-25 PRIOR FILING DATE: 298-06-25 PRIOR FILING DATE: 298-06-25 PRIOR FILING DATE: 208-06-25 PRIOR FILING DATE PRIOR FILING DATE PRIOR FILING PRIOR FILING PRIOR FILING PRIOR FILING <tr< th=""></tr<>
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ζς Α	CTTGTCCTTTAGTTTTGGGGGTAACCCACTTCACTGCAATTGTGAGCTTCTCTGGGCTGCG	QY 2239 GCGGGGGCCCGCGCAGG 2257 Db 2527 CCGGCCGGGAGCCGGGG 2545
VO PP	GAGGCTCGAGCGGGGACCATGAGCCTGTGGGCTCCAGGGGCCTCAAGGGTCG I	RESULT 13 US-10-245-055-99 ; Sequence 99, Application US/10245055
QY Db	1287 CTACTTCTGGCATGTGCGTGAGGAGGAGTTTGTGTGCGGGGGGGG	No. US2003 ORMATION: Baker, Kevi Eaton, Dan
oy da	134' CACACACAGTTGCTGGTGGGGGGGGGGGGGGGGGGGCACTCAGTGCAAGCCATTGG 1406 14 1	
Ag	GGACCCCAGCCCCTTATCCACTGGGTAGCCCCCGATGACCGCTGGTAGGGAACTCCTC 1 	APPLICANT: Smith, Victoria APPLICANT: Stephan, Jean-Phillippe APPLICANT: Watanbe, Jean-Phillippe APPLICANT: Wood, William
oy Dp	1467 AAGGACGGCTGTCTATGACAATGGCACCCTGGACATCTCATCACCACATCTCAGGACAG 1526 	Zh FO NVEN
Q Db	1527 TGGTGCCTTCACCTGCATTGCTGCCAATGCTGCGGGGGAGAGGGCCACGGCCATGGTGGAGGT 1586 	REFERENCE: P36 NT APPLICATION NT FILING DATE APPLICATION N
oy da	1587 CTCCATCGTCCGGCTGCCACCACCAGCAGCAGCAGCAGCAGCAG 1644 1875 GACTGTGGGTCCCCCAGCTAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCA	<pre>PRIOR FILING DATE: 2002-07-18 PRIOR APPLICATION NUMBER: 60/059114 PRIOR FILING DATE: 1997-0914 PRIOR APPLICATION NUMBER: 60/063046</pre>

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	<pre>ored - See File Wrapper or PALM. (21.9, DB 9; Length 2855; Mo.1.3=182; matcher 662; Indels 19; Gaps 4; matcher 61; ceccedidated active for 61; interrence 662; Indels 19; Gaps 4; matcher 61; ceccedidated active for 61; interrence 662; Indels 19; Gaps 4; cecreating for 10; interrence 662; Indels 19; cecreating for 10; interrence 662; Indels 19; certerrence 10; matcher 60; certerrence 60; matcher 60; matc</pre>	•
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RESULT 14 US-10-245-147-99 ; Sequence 99, Application US/10245147	; PUDIICATION NO. US20030073193A1 ; GENERALI INFORMATION: ; APPLICANT: Baker, Kevin ; APPLICANT: Eaton, Dan ; APPLICANT: Filvaroff, Ellen	; APPLICANT: Goddard, Audrey ; APPLICANT: Grimaldi, J. Christopher ; APPLICANT: Gurney, Austin ; APPLICANT: Smith, Victoria	APPLICANT: Stephan.Jean-Philippe APPLICANT: Watanbe.Colin APPLICANT: Wood,William APPLICANT: Zhang, Zemin	AFTILE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE REFERENCE: P3630RLC7 FILE REFERENCE: P3630RLC7 FILE REFERENCE: P3630RLC7 FILE REFERENCE: P3630RLC7	CURRENT FILING DATE: 2002-09-11/245,114/ FRIOR APPLICATION NUMBER: 10/197942 PRIOR FILING DATE: 2002-07-18	FRIOR FFLING DATE: 1997-09-17 FRIOR APPLICATION NUMBER: 60/063046 FRIOR APPLICATION NUMBER: 60/063046 PRIOR FILING DATE: 1997-10-24		FILING DATE: 1998-00 APPLICATION NUMBER: APPLICATION NUMBER: FILING DATE: 1998-00	FRICK AFFLIXC ALVN WUMBER BOY 08901 FRICK FFLIXC DATE: 1998-06-18 FRICK AFPLICATION NUMBER: 60/090557 FRICK FFLIXD DATE: 1998-06-24	FILING DATE: 1998-06 FILING DATE: 1998-06 ning Prior Applicatio R OF SEQ ID NOS: 116 NO 99	CAN CAN	Query Match. 19.8%; Score 621.8; DB 9; Length 2855; Query Match 19.8%; Score 621.8; DB 9; Length 2855; Best Local Similarity 61.3%; Pred. No. 1.3e-162; Indels 19; Gana 4. Matches 1078; Conservative 0. Mismatches 662; Indels 19; Gana 4.	GGTCGACGCCTGCCCCAAGTACTGGTCGTCGCCAGAATCTGTCTG	567 GGGGGCCCTGTGGGGGGGGGGGGGGGGGGGGGGGGGGG	AGTGGAGCTGCGCGCGGCGACTTCATCATCATCACCACATCAGCGGCGGGGACTTTGCCAA 	687 CATGACGGGGCTGGTGGACCTGACCAGGGAACACCATCAGCCACCAGCCCTT 111111111111111111111111111111111	747 TTCCTTTCTGGACCTCGAGAGCCTCCGCTCCCTGCATCTTGACAGCAATCGGCTGCCAAG

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Db2107ATCCAGTACAACAGCTCGGCTGATGACATCCTCGTCTACAGGATGATCCCGGGGGAGGGGCY1885AAGGCCTTCGTGGTGATGACCTGGGGGGGGGGGGGGGGG	<pre>s-730-99 s-730-99 c. TNPORMATION: c. INFORMATION: AMT: Baker,Kevin AMT: Baker,Kevin AMT: Baker,Kevin AMT: Baker,Kevin AMT: Baker,Kevin AMT: Gaurey,Austin AMT: Gaurey,Austin AMT: Gaurey,Austin AMT: Stephan,Jean-Phil AMT: Stang, Zemin AMT: St</pre>	PRIOR FILING DATE: 1998-06-18 PRIOR APPLICATION NUMBER: 60/090557 PRIOR FILING DATE: 1998-06-24 PRIOR APPLICATION NUMBER: 60/090689 PRIOR FILING DATE: 1998-06-25

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qa	1695	GGACCCAGAGCCCCGTGGGTTGGGTGTCACCCCAGGGCGGGC
Q	1467	AAGGACCGCTGTCTATGACAATGGCACCACCTGGGACATCTTCACCACATCTCAGGACAG 1526
qa	1755	CCGTGCCCCCCCCCATCCCCAATGCCACCCGGACCCGGCCGG
δγ	1527	TGGTGCCTTCACCTGCCATTGCTGCCAATGCTGCCGGAGGCGCCATGGTGGGGGT 1586
q	1815	TGGCATCTTCACCTGCATTGCCAATGCAGCTGGCGAGGCCACGCGCGGCGGCCT 1874
٥٧	1587	CTCCATCGTCCAGCACCTCAGCAACAGCACCAGCCGGCGCTGCACCCCCCAAG 1644
, qC	1875	GACTGTGGGTCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
Q	1645	TCCCGCCTCTCAGACATGCTCCAGCAAGACCAGCCGGGGGAGGTGGAGGCAGTGGG 1704
qq	1935	GGACGGGGATCCTGGATGCTCTCCCCTGCCTGCTGCTTCTGCCAAGGTGGC 1994
οy	1705	GGCGGAGAGCCTCCCAAAAGCCCCCCGGAACGGGGCTGTGCTGTGTGTG
qq	1995	CACACTGGGCCCCCTACCACCGTGCCTCCAGGTGACCACGGGGCC 2046
Q	1765	ACCTCGGCCCTGGTCAAGTGGTCAGCAAGTCAGCACCCCCGGGTGAAGATGTACCAG 1824
qq	2047	ALCACTGCTGCTGGCCGGATCAGCGGCCTATCCGGGGCGGCCATCCGCATGTACCAG 2106
VQ	1825	CTGCAGTACAACTGCTCGAGGAGGAGGAACTGATTACAGGATGATCCCAGCTCCAAC 1884
qa	2107	A UIUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUUU
Q	1885	AAGGCCTTCGTGGTCAACAACCTGGTGTCAGGGACTGGCTACGACTTGTGTGTG
qa	2167	CGCTCGTTCCTGCTGACGACCTGGCGCTCGGGCGCGGACCTACGATCTGTGCGTCGCC 2226
δ	1945	ATGTGGGGATGACACCACGCACCACCAACAACATCGTGGGGCTGCGCCCAGTTC 2004
qО	2227	GTGTATGAGGACAGGGCGCTCACGGGCCCCGGGCCTGTGCCCGCCGCCGCCTC 2286
QV	2005	TTCACCAAGGCTGACTGCCGGGGGGGGGGGGGGGGGGGG
qq	2287	TCLACCARCCTGCGCCCCCCCCCCCCCCCCCCCCCCCCCCCCC
٥٧	2065	ATGATCCTGGTCATCGGGGGCATCATCGTGGCCACGCTGGTCTGTCATCCTC 2124
qa	2347	ATGATCATCGCCTGGCGCGCGCGCGCGTACTCGTACTCGTCTTCATCTTCGTGCTG 2406
QY	2125	ATGGTGCGCTACAAGGTCTGCAACCACGAGGCCCCCAGCAAGATGGCAGGCGCC 2178
qq	2407	CTAATGCGCTACGTGCGCGCCGCCCGCCCGGCAAGGCCCAAGGTTCCCGCGCCT 2466
QV	2179	GTGAGCAATGTGTACCCAACGGCGCGCCCAGCCACCGCCCCAGCCAG
qu	2467	GTTAGCAGCGTTTGCTCCCCAGCCCCAACCAGCGCCCCCGGCCCCCCCC
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	283.8 9.3 674 285.4 9.3 674 285.4 9.1 534 276.6 8.8 712 271.4 8.6 703 271.4 8.6 703 271.4 8.6 703 266.2 8.5 703 266.2 8.5 512 266.2 8.5 512 266.2 8.5 512 266.2 8.5 512 266.2 8.4 703 263.2 8.4 720 263.2 8.4 635 263.2 8.3 634 263.2 8.3 634 263.2 8.3 634		AK017594 Mus musculus 8 Mus musculus 8 enriched libraa (FRAGNENT), fui (FRAGNENT), fui AK017594 AK01750 AK04750 A	Bukaryota; Metazoa Bukaryota; Petheria Larninci, P. and Ha High-efficiency fu Meth. Enzymol. 303 99279253 10349563 2 Carninci, P., Shiba Carninci, P., Shiba Carninci, P., Shiba Carninci, P., Shiba Carninci, P., Shiba 2049373 2049374 2049374 2049374 2049374 2049374 2049374 2049374 2049374 2049374 2049374 2049374 2049374 2049375 2049575 20457575 20457575 20457575 20457575 20457575 20457575 2045757575 2045757575 20457575757575757575757575757575757575757
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MYÓLÓTNICSDDEVLITYRMI PASNKAFVVNNLVSGTGYDLCVLAMWDDTATTLTATNIV GCAQFFTKADYPQCQSMHSQIKGGTMILVIGGI I VATLLVFIVILMYEYKVCNHDTPG SSÁLAATVSNVYSQTNGSQPPELGGIPGQEDQAFKVVVRNEMDFSTSLARACDSS SSÁLGSGEAAGLGRGFWKLPPPAPR FYSELDRIMAFRANDLSKSGKEELLUDSRTPAG RGÁGTSSRHHSDRFLAPPLLGPPATRARLLPLELGGKAKSHSFDMGFAAAAAAVPGG YSÞRRVVSNIWTKRELSVNGMLLPFEESDLVGARGFFGSSEWVMESTV" ARSOASLLTATPFAPPLSFSFGGNPLHCNCELLWLRRLERDDDLETCGSPGSLKGRYF WHIREBEFVGEPPLITQHTHKLLVLBGQAATLKCKAIGDPSPLIHWVAPDDRLVGNSS RTÅVYDNGTLDILITTSQDSGPFTCIAANAAGEATATVEVSIVQLPHLSNSTSRMAPP KSŘLSDITGSSKTSRGGGGSGAGEPPKSTPERAVLVSDVTTTSALVKWSVSKSAPRVK FVPPDIDRRTVELRLGGNFIIHIGRODFANNTGLVDLTLSRNTISHIQPFSFLDLESL RSLHLDSNRLPSLGEDTLRGLVNLQHLIVNNNQLGGIADDAFEDFLLTLEDLDLSYNN LHGLPWDSVRRMVNLHQLSLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDFIF 15; /db_xrefe"FANTOM DB:5730420005" /db_xrefe"#MGD:MGT:1902927" /db_xrefe"taxon:10090" /clone=refa0000505" /clone_lib="RIKEN full-length enriched mouse cDNA library" /db_xref="MGD:MGI:1917780" /třānslation="METLLGGLLAFGMAFAVVDACPKYCVCQNLSESLGTLCPSKRLL 310 370 436 490 431 GCCTTGCCCAGGTGCTGAGTGACCAGGACCATGGAGACTCTGCTTGGTGGGCTGC 490 71 GGGATGCCAGGGGGTTCTTCAACAAGGAAAATCCTACCTCCTCCTAGAAGGGATT 130 208 190 263 250 319 377 106 164 70 /nóte="data source:SPTR, source key:Q9ULH4, evidence:ISS homolog to KIAA1246 PROTEIN (FRAGMENT) with BamHI and XhoI. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: SalI; 3' end: BamHI. [Host: DH10B. 131 ATCTTTTTTTTTTTCCCCCTTATTTTTTTTAAATCTGGAAGAAGAAGAAGAAGAGAAGA CTCAGGGCTCTCCCCGCGTGGATGGTCCGAGGCCCACCACCTGCCTTCGCTGGATCG 378 GGGGAGCCCGGGGGCGCGGGAGCC-GGCCTCGGTGCCACCCGGGGGGGTAGATGCT 47 ACCCGGCAGGCTCGTCTGAACTTGAAGACACCCCCCACATTCCAAGATGCCCCGAGGTTCCTG 11 ACAGGACAGACTGGTCTGAACATGCATCCCACATTCCAAGGCCTGCAGGTTCCTG 191 reracreecececerterrerrecraaareceareaaraceaaraacreaaraacere 437 GCCTCGCCCAGG-----CGCTCGAGTCGACCCATGCAGCCCTGCTTGGTGGCCCTGC - TTTCCCCCCTTCTTCTTGCTAAACGCCATGGATATAACTGAATAAGCGG CTCAGGGCTTTTCCCCGCGTGGA - CGTCCGAGGCCACCATCTGCCTGCATTCGCCGGA - --TTCTTTAATCTGGAAGAGAGAGAGAACAAGT Gaps DB 11; Length 3204; 67; 439; Indels 716 t Score 2170.6; Pred. No. 0; 0; Mismatches dev stage="8 days embryo" /codon_start=1 /protein_id="BAB30828.1" /db_xref="GI:12856914" 1. 3204 /organism="Mus musculus" - - ATTATT location/Qualifiers σ 'strain="C57BL/6J" 864 Query Match Best Local Similarity 84.0%; Matches 2651; Conservative 166. .2832 /note="data 964 C putative" TGTGCT - --ൻ 165 TATTATT. 660 209 251 264 320 source BASE COUNT CDS FEATURES ORIGIN 8 qq g g 8 qq q g δ 8 qd \mathcal{S} g δ \mathcal{S} \mathcal{F} Kawai.J., Shinagawa,A., Shibata,K., Yoshino,M., Itoh,M., Ishii,Y., Arakawa,T., Hara,A., Fukunishi,Y., Konno,H., Adachi,J., Fukuda,S., Aizawa,T., Izawa,M., Nishi,K., Kiyosawa,H., Kondo,S., Yamanaka,I., Saito,T., Okazaki,Y., Go'jobri,T., Kiyosawa,H., Kaudo,S., Zauto,R., Kadota,K., Matsuda,H., Ashburner,M., Batalov,S., Casavant,T., Kuehl,P., Lewis,S., Matsuo,Y., Nikaido,I., Pesole,G., Ouackenbush,J., Schim,L.M., Staubli,F., Suzuki,R., Tomita,H., Wagner,L., Washio,T., Staubli,F., Suzuki,R., Tomita,M., Baldarelli,R., de Bonaldo,M., Gatsic,C., King,B., Kochiwa,H., Baldarelli,R., de Bonaldo,M.F., Buuto,M., AOno,H., Baldarelli,R., de Bonaldo,M.F., Buuto,G., Bill,D., Hofmann,M., Humo,D.A., Kamiya,M., Lee,M.H., Lyons,P., Marchionni,L., Mashia,J., Nazzarelli,J., Mombaerts,P., Nordone,P., Ring,B., Ringwald,M., Rodriguez,I., Sakamoto,N., Sasaki,H., Toyo-oka,K., Wang,K.H., Weitz,C., Whittaker,C., Wilming,L., Wynshaw-Boris,A., Yoshida,Y., Hasegawa,Y., Stevch,K.F., Suzuki,H., Wonshaw-Boris,A., Yoshida,Y., Hanegawa,Y., Kawaji,H., Kohtsuki,S. Mad Hayashizi,Y. 5 fbases 1 to 3204) 8 5 fbases 1 to 3204) 8 Adachi,J. Aizawa,K., Akahira,S., Akimura,T., Aono,H., Arai,A., 8 Adachi,J., Aizawa,K., Akahira,S., Runuo,M., Bult,C., 8 Arakawa,T., Bult,C., 8 Arakawa,T., Bult,R., Bono,H., Brownstein,M., Bult,C., 8 Arakawa,T., Hayatsu,N., Hill,D., Hiramoto,K., Hiraoka,T., Hori,F., 8 Hume,D. Imochani,K., Ishii,Y., Itoh,M., Izawa,M., Kasukawa,T., 8 Kuc,H., Kawai,J., Kojima,Y., Ronno,H., Kovda,M., Koya,S., 8 Kurihara,C., Matsuyama,T., Miyazaki,A., Nishi,K., Nomura,K., 8 Numazaki,R., Ohno,M., Okazaki,Y., Okido,T., Owa,C., Ouackenbush,J., 8 Satto,H., Saito,R., Sakai,K., Sano,H., Sasaki,D., 8 Satto,H., Saito,R., Sakai,K., Sano,H., Sasaki,D., 8 Satto,H., Suibata,Y., Tagawa,A., Takahashi,F., 9 Satushi,H., Toya,T., Yamamura,T., Yamanaka,I., 9 Yasunishi,A., Yoshida,K., Yoshino,M., Muramatsu,M. and 1 Ayashizaki,Y. Submitted (10-UU-2000) Yoshihide Hayashizaki, The Institute of Submitted (10-UU-2000) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Pargoloration Research Group, RIKEN Gemonic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (R-mail:genome-res@gsc.riken.go.jp, WRL:http://genome.gsc.riken.go.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216) Please visit our web site (http://genome.gsc.riken.go.jp/) for further details. Šhibata,K., Itoh,M., Aizawa,K., Nagaoka,S., Sasaki,N., Carninci,P., Konno,H., Akiyama,J., Nishi,K., Kitsunai,T., Tashiro,H., Itoh,M., Sumi,N., Ishii,Y., Nakamura,S., Hazama,M., Nishine,T., Hazada,A., Yamamoto,R., Matsumoto,H., Sakaguchi,S., Ikegami,T., Kashiwagi,K., Fujiwake,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Watahiki,M., Yoneda,Y., Ishikawa,T., Ozawa,K., Tanaka,T., Matsuura,S., Kawai,J., Okazaki,Y., Muramatsu,M., Inoue,Y., Kira,A. and Hayashizaki,Y. RIKEN integrated sequence analysis (RISA) system--384-format Genome Res. 10 (11), 1757-1771 (2000) Functional annoiation of a full-length mouse cDNA collection Nature 409 (6821), 685-690 (2001) Direct Submission 21085660 11076861 11217851 20530913 TITLE JOURNAL TITLE JOURNAL MEDLINE PUBMED REFERENCE PUBMED REFERENCE AUTHORS AUTHORS AUTHORS MEDLINE REFERENCE JOURNAL COMMENT TITLE

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δλ	1931	TGTGTGCCATGGCATGACGCACGACCACGACACTCACGCCCACCACCACCATGTGG 1990
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δλ	2228	22
рр	2231	GTGGGATACCCGTTGGCAGCTTCCTCAGGCACCACAAGTTGTGTCCCGCAGGCAG
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Db	2351	GCAGCGGGGGAAGCCGCGGGGCTGCCCGGGGGCTCCCTGGGGGCGCCCCCCC
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 TGCGACGCATGGTCAACCTCCACCAGCTGGAGCCACGAGCCACAACCTGGTGGATCAATCG CCCCTTTGCCCCCCCCCCCTGTCTTTAGTTTTGGAGGGGAACCCGCTGCACTGCAATTGG GCCACATCCAGCCCTTTTCCTTGGAGCCTCGAGAGCCTCCGCTGCATCTTGACA GCCATATCCAGCCCTTCCTTCCTGGACCTTGAGAGCCTCCCGCTCCCTGCACCTTGACA TACGGCCCATGGTCATCATCATCATCAGCTGGGTCTGGACCACATTGCTGGACCACATTG GCCAGGACTTTGCCAACATGACGGGGGCTGGTGGACCTGACCTGTCCAGGAACACCATCA TGCAGAAGCTGCCCCTGATCCCCATCTTTGCCCGGCTTCCGGCTTTGGCCTTTGACAGCCA CACCCTTTGCCCCACCCTTGTCTTTAGTTTTGGGGGGTAACCCCACTTCACTGCAATTGTG 11G 8 & B qq S B S 6 S δ a y a S G S G S a S a vo vo vo a vo a q

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<pre>/lab host="Top10F'" /note="organ: Stomach, Vector: pME18-FL3; Site_1: XhoI; /note="organ: Stomach, Vector: pME18-FL3; Site_1: XhoI;</pre>	ry Match t Local Sir t Local Sir t Local Sir el 2 1 A 1 A 1 A 1 A 1 A 1 2 1 C 1 2 1 C 1 2 1 C 1 2 1 C 1 2 1 C 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A	CGGCCGGGGGGGGGGCGCGGGGGGGGGGGGGGGGGGGG	521 621 541 641 601 601 80LT 3 80LT 3 812768 81 702 703 703 703 703 81 700 60	
		RESULT 2 BM787163 LOCUS BM787163 BM787163 BM787163 RY87163 M797163 M797163 M797163 M707163 M707163 M707163 M707163 M707163 M707163 M707163 M707163 M71712 M707163 M70717 M707163 M70717 M7070707 M7070707 M7070000000000	<pre>52 Boeur cong vuseong-gu, baejeon J05-333, South Nutca Tel: +82-42-860-4409 Fax: +82-42-860-4409 Fax: +82-42-860-4409 Fax: 1005 Fax: -1000 fail (1000 Fax: -1000 fail (1000 fail (1000)) Finate: 20 row: H column: 05 High quality sequence stop: 661. High quality sequence stop: 661. Location/Qualifiers 1. 611 coation/Qualifiers /clone = %118NU1 = %1000 /clone = %118NU1 = %1000 /cell type="Stomach" /cell type="Stomach" /cell_line="Stout"</pre>	

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/note="vector: pSPORT1; Site_1: Not 1; Site_2: Sal 1; Library constructed using SuperScript Plasmid Library kit (Life Technologies). cDNA made by oligo-dT priming. (ise-selected by column fractionation; average insert size 0.97 kb. Amplified once on solid support. cDNA Library Preparation: Guolin Chen." BQ126354 582 bp mRNA linear EST 19-APR-2002 iil6e11.y1 Melton Amplified Mouse E16 5 Pancreas 3 M16S1 A Mus musculus CDNA clone IMAGE:5941749 5' similar to TR:Q9ULH4 Q9ULH4 KIAA1246 PROTEIN *;*, mRNA sequence. 1345 1346 ACACACACAAGTTGCTGGTTCTGGAGGGGGCCAGGGGGGGCCACCACTCAAGTGCCAAAGCCATTG 1405 With manual and the second of the secon 599 539 Endocrine Pancreas Consortium Harvard University, Howard Hughes Medical Institute Dept of Molecular and Cellular Biology, 7 Divinity Ave, Cambridge, /clone_lib="Melton Amplified Mouse E16 5 Pancreas 3 M16S1 žą GCTACTTCTGGCATGTGCGTGAGGAGGTTTGTGTGCGGAGCCGCCTCTCATCACCCCAGC 540 ACACACAAGTTGCTGGTTCTGGAGGGGCCAGGGCGTGCACCCCACTCAAGTGCCAAAGCCATTG GGAGGCTCGAGCGGGACGATGACCTGGAAACCTGTGGCTCCCCAGGGGGCCCTCAAGGGTC Email: dmelton@biohp.harvard.edu Ebibrary was constructed by Dr. Douglas Melton DNA sequencing b Washington University Genome Sequencing Center This clone is available royalty free through LLNL; please contact the IMAGE consortium (info@image.llnl.gov) for further information Seq primer: -40RP from Gibco High quality sequence stop: 444. Location/Qualifiers Unpublished (2000) Other_ESTs: iil6e11.x1 Contact: Douglas Melton, Klaus H. Kaestner, & Hiroshi Inoue /tissue_type="pancreas" /dev_stage="Embryonic day E16.5" /lab_host="DH10B" 104 t /organism="Mus musculus" /clone="IMAGE:5941749" /db_xref="taxon:10090" 1406 GGGACCCCAGCCCCCTTATCCA 1427 600 GGGACCCCAGCCCCCTTATCCA 621 158 g BQ126354 BQ126354.1 GI:20200265 'sex="Both" 194 C Tel: 617-495-1812 Fax: 617-495-8557 .582 house mouse. đ MA_02138 126 EST. 1286 421 source SOURCE ORGANI SM DEFINITION BASE COUNT ORIGIN ACCESSION VERSION KEYWORDS REFERENCE AUTHORS TITLE JOURNAL BQ126354 LOCUS RESULT 4 FEATURES COMMENT g δ g δ q 8 g /tille_lub="wn"mod_last" /tille_lubEt="NH"mod_last" /lab_lubEt="DH10B (phage-resistant)" /lab_lubEt="DH10B (phage-resistant)" /nota="organ: brain; vector: pOTBY; Site_1: Xho1; Site_2: BCORI; CONA made by oilgo-dT priming. Directionally cloned into EcoRI/Xho1 sites using the following 5' adaptor: GGCAGGGG(0). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Strategene) and Superscript II RT (Life Technologies). Note: this is a NH_MGC Library." 986 ACCTCCACCAGCTGAGCCTGGACCACAACCTGCTGGATCACATCGCCGAGGGGCACCTTTG 1045 1046 CAGACCTGCAGAAACTGGCCCGCCTGGATCTCACCCTCCAATCGGCTGCAGAGCTGCCCC 1105 CTGATCCCATCTTTGCCCGCTCCCAGGCTTCGGCTTTGACAGCCACCCTTTGCCCCCAC 1165 CCTTGTCCTTTAGTTTTGGGGGGTAACCCACTTCACTGCCAATTGTGAGCTTCTCTGGCTGC 1225 1226 GGAGGCTCGAGCGGGACGATGACCTGGAAAACCTGTGGCTCCCAGGGGGCCTCAAGGGTC 1285 865 240 300 61 ACCAGCTGGGCGGCCATCCCAGATGAGGCTTTTTGAGGACTTCCTGCTGACATTGGAGGATC 120 180 301 CTGATCCCATCTTTGCCCGCTCCCAGGCTTCGGCCTTTGACAGCCACACCCTTTGCCCCAC 360 420 925 985 60 Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. Contract: Robert Strausberg, Ph.D. Contract: Robert Strausberg, Ph.D. Email: cgapbs-remail.nih.gov Trissue Procurement: ATCs cDNA Library Preparation: Ling Hong/Rubin Laboratory cDNA Library Arrayed by: The I M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, IInc. DNA Sequencing by: Incyte Genomics, Inc. Clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov Plate: LLCNN1015 row: 1 column: 01 High quality sequence stop: 621. 181 ACTCCACCAGCTGGGCCAGGACCAGCAGCAGGATCAGATCACATCGCCGGGGGCACCTTTG 121 TGGACCTCTTACAACAACAACCATGCCTGCCGTGGGACTCCGTGCGACGCATGGTCA 241 CAGACCTGCAGAAAACTGGCCCGCCTGGATCTCACCTCCAATCGGCTGCAGAAGCTGCCCC GCCTTGGGGGGGGGCCTGGGGGGCCTGGTCAACCTGCAGCACCTTATCGTGAACAACA 866 ACCAGCTGGGCGGCATCGCAGATGAGGCTTTTTGAGGACTTTCCTGCTGACATTGGAGGATC GCCTTTGGGGGAGGACACCCTCCGGGGGCCTGGTCAACCTGCAGCACCACCAGCACCAACA TGGACCTCTTCCTACAACAACATCCTCCTGCCCTGCCGGGGACCCCATGCTCA 361 CCTTGTCCTTTAGTTTTGGGGGGTAACCCACTTCACTGCAATTGTGAGCTTCTCTGGGCTGC Gaps NIH-MGC http://mgc.nci.nih.gov/. National Institutes of Health, Mammalian Gene Collection (MGC) 1; Score 606.8; DB 12; Length 621; Pred. No. 4.3e-119; 0; Mismatches 2; Indels 1; 'organism="Homo sapiens" 19" /db_xref="taxon:9606" /clone="IMAGE:4126224" /clone lib="NIH MGC 19" BF312768.1 GI:11260634 tch 19.3%; al Similarity 99.5%; 619; Conservative Unpublished (1999) .621 118 numan. EST Query Match Best Local S: Matches 619 1106 926 -806 1166 source BASE COUNT ORIGIN ACCESSION VERSION KEYWORDS SOURCE **ORGANI SM** REFERENCE AUTHORS TITLE JOURNAL FEATURES COMMENT q q 5 g å å 8 q δ g δ S 8 5 ଚ

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<pre>Fax: 617-495_857 Email: dmeltonobiohp.harvard.edu Library was constructed by Dr. Douglas Melton DNA sequencing by: Unibrary was constructed by Dr. Douglas Melton DNA sequencing by: Nashington University Genome Sequencing Center This clone is washington University Genome Sequencing Center This clone is available royalty-free through LLNL; please contact the IMAGE consortium (info@image.llnl.gov) for further information seq primer: -400P from Gibco High quality sequence stop: 388. FEATURES not sequence stop: 388. fraction/dualifiers source consortium (info@image.llnl.gov) for further information seq primer: -400P from Gibco High quality sequence stop: 388. fraction/dualifiers not contact the IMAGE consertion distribution clone="TMAGE:5941749" clone="TMAGE:5</pre>	<pre>/ Match Local Similarity 98.4%; Score 540.2; DB 14; Length 578; local Similarity 98.4%; Pred: No. 6.9e-105; as 556; Conservative 0; Mismatches 8; Indels 1; Gaps 2575 gccccgegccGegaGccractcccrraccGrragGageGGCAAGCGCAACGCGGCGCACTCC 578 gcccgegcGegaGacractccccrraccGrragGageGGCAAGGCCAAACGCAGCACTCC 578 gcccgegGGGAGCCractCccrraccGrragGaGeGGCAAGGCCAAACGCAGCACTCC 578 gcccgeGGGGGGAGCCTCCCCrragCGGGGGGGGGGGGGGGGGGGGGGGGGGGGCCAAAGG 578 gcccgeGGGGGGGAGCTTTGCTGCTGCGGGGGGGGGGGGGGGGGG</pre>	398 2814 2814 2874 2874 2934 2934 2934 2934 2934 2934 2934 293	
Query Match18.5%Score 582; DB 14; Length 582; Best Local Similarity 100.0%; Pred. No. 8.3e-114; Matches 582; Conservative 0; Mismatches 0; Indels 0; Gaps 0; Matches 582; Conservative 0; Mismatches 0; Indels 0; Gaps 0; 1408 Gaccccaccaccaccaccaccaccaccaccaccaccacca	Db301GödödöccrtcccAAAaGcccccGGAAGGGGGGGGGGGGGGGGGGGGGG	<pre>RESULT 5 BQ126066/c BQ126066/c DCUSS DEFINITION infecl1.x1 Melton Amplified Mouse E16 5 Pancreas 3 M1651 A Mus infocus contains conta clone IMAGE:5941749 3' similar to TR:09ULH4 Q9ULH4 Musculus conta clone IMAGE:5941749 3' similar to TR:09ULH4 Q9ULH4 ACCESSION VERSION VERSION BQ126066.1 G1:20199977 SCWORDS MUS musculus ORGANISM EST AUTHORS Mus musculus Nuserouse ORGANISM Mus musculus Numerculus Numerculus Nuserouse AUTHORS Mus musculus Nuserouse Mus musculus Nuserouse AUTHORS Mus musculus Nuserouse Nuserouse Mus musculus Nuserouse AUTHORS Mus musculus Nuserouse ORGANISM Nuserouse Nuserouse AUTHORS Mus musculus Nuserouse Nuserouse AUTHORS Mus musculus Nuserouse AUTHORS Mus musculus Nuserouse N</pre>	/ 19

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Db 181 [Qy1821 CCAGCTGCAGTACAGTGCTCTGATGATGATGATTTACAGGATGATC 1872 	<pre>TITLE Trade (Argama, A., Takahashi, F., Takeda, Y., Tanaka, T., Toya, T., Wuramatsu, M. and Hayashizaki, et al. 2001) UDUDNAL Unpublished (2001) Contact: Yoshihide Hayashizaki Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute Sciences Center(GSC), Yokohama Institute The Institute of Physical and Chemical Research (RIKEN) 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9216 Email: Genome.gsc.riken.go.jp, URL:http://genome.gsc.riken.go.jp, M., Konno,H., OkazakiY., Muramatsu,M., Sugahara,Y., Shibata,K., Itoh M., Konno,H., OkazakiY., Muramatsu,M., Sugahara,Y., Shibata,K., Itoh genes. Genome Res I 0(10) .1617-1630 (2000) wagi,K., Fujiwake,S., Inoue,K., Togawa,Y., Kira,A. and Hayashizaki,Y. Rataki,Y., Muramatsu,M., Inoue,Y., Kira,A. and Hayashizaki,Y. Rakai,J.</pre>
<pre>RESULT 6 BM94451 ICOUS DETNITTION DETNITION UI-M-EGOP-bvd-m-12-0-UI.r1 NIH BMAP_EGOP Mus musculus CDNA clone MM48451 UCUS DETNITION UI-M-EGOP-bvd-m-12-0-UI.r1 NIH BMAP_EGOP Mus musculus CDNA clone ACESSION BM948451 ICOUS MM48451 ICOUS</pre>	FEATURES Location/Qualifiers Location/Qualifiers 1 . 652 Location/Qualifiers Location/Qualifiers Location/Qualifiers (cross for the second of	BASE COUNTLeMAPY:CHEME DISCOVERY IN THE DEVELOPING MOUSE NERVOUS System,', supported by National Institute of Mental Health (NIMH), Hemin Chin, Ph.D., program coordinator."BASE COUNT143 a183 c189 g137 tDRIGIN16.7%Score 535.6; DB 14; Length 652;Matches 573; Conservative 0; Mismatches 79; Indels 0; Gaps 0;OY1221 GCTGGGAGGGCTGGAGGAGGAGGAGGAGGAGGAGGGGGGGG

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Db 302 TGGAGCTGCGTCTGGGTGGCAACTTCATCATCATCCACCATTGGCCGCCTTTG 361 0Y 689 TGAGGGGGCTGGTGGACCTTCATCATCATCCAGCCGCTATGCCGGCCTTTT 748 0Y 689 TGACGGGGGCTGGTGGACCTGACCATCCAGGAACCCCATCGGCCCTTTT 748 0Y 749 CCTTTCTGGGGCCTGGCCCCGGGGAACCCCAGGGAACCCGGCCATTGCCAGGCCCTTC 421 0Y 749 CCTTTCTGGGGCCTCGGCCCGGGGAACCCGCCATGGCCATGGCCCTGGCC 808 0Y 749 CCTTTCTGGGGCCTCGGCCCGGCAGCACCCGGGAACCGGCCAAGCC 808 0Y 1111	542 929 602	BC007718 Homo sapiens, hypothetical pro mRNA. BC007718.1 HTC. Homo sapiens.	ORCANISM Homo septens Eukaryotens Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryotens Metazoa; Primates; Catarrhini; Hominidae; Homo Mammalia; Futheria; Primates; Catarrhini; Hominidae; Homo Mammalia; Euto 1853) REFERENCE 1 (bases 1 to 1853) REFERENCE 1 (bases 1 to 1853) Strausberg/R: Direct Submission JOURNAL Submitted (11-MAY-2001) National Institutes of Health, Mammalian JOURNAL Submitted (11-MAY-2001) National Institutes of Health, Mammalian JOURNAL Submitted (11-MAY-2001) National Institutes of Health, Mammalian JOURNAL Gene Collection (MGC), Cancer Genomics Office, Mational Cancer Gene Collection (MGC), Cancer Genomics Office, Mational Cancer Institute, 31 Center Drive, Neom 11A03, Bethesda, MD 20892-2590, USA	REMARK NIH-MCC Froject Uku: nctp://mycrucor	<pre>daithersburg, Maryland, web site: http://www.nisc.nih.gov/ meb site: http://www.nisc.nih.gov Contact: nic.mgc@nhgri.nih.gov Shevchenko,Y., Wetherby,K.D., Beckstrom-Sternberg,S.M., Benjamin,B., Blakesley,R.W., Buchfard,G.G., Brinkley,C., Legaspi.R., Dietrich,N.L., Guan,X., Gupta,J., Ho.SL., Karlins,E., Legaspi.R., Dietrich,N.L., Guan,X., Gupta,J., Ho.SL., Karlins,E., Legaspi.R., Dietrich,N.L., Guan,X., Gupta,J., Ho.SL., Karlins,E., Legaspi.R., Dietrich,N.L., Rasiello,C., Mastrian,S.D., McCloskey,J.C., Lim,M., Madurt,Q.R., Snyder,B., Stantripop,S., Thomas,P.J., McDowell,J., Pearson,R., Snyder,B., Stantripop,S., Thomas,P.J., Priorgen,E.E., Touchman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A., Priorgeon,E.E., Prochman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A., Priorgeon,E.E., Prochman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A., Priorgeon,E.E., Prochman,J.W., Tsurgeon,C., Vogt,J.L., Walker,M.A., Priorgeon,E.E., Prochman,J.K., P</pre>	<pre>clamption in the second distribution information can be found clone distribution: MGC clone distribution information can be found clone distribution: MGC clone distribution information can be found through the 1.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAL Plate: 17 Row: e Column: 2 Series: IRAL Plate: 17 Row: e Column: 2 This clone was selected for full length sequencing because it This clone was selected for full length sequencing because it passed the following problem: incomplete processing. This clone has the following problem: incomplete processing. The following problem: incomplete processing. This clone has the following problem: incomplete processing. This clone has the following problem: incomplete processing. This clone has the following the following</pre>
<pre>sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-171 (2000) Konno,H., Fukunishi,Y. Shibata,K., Itoh,M., Carninci,P., Sugahara Konno,H., Fukunishi,Y. ,Y. and Hayashizaki,Y. ,Y. and Hayashizaki,Y. , and Hayashizaki,Y. , and encyclopedia: real-time sequence clustering for construction of a encyclopedia: real-time sequence clustering for construction of a ponredundant cDNA library. Genome Res. 11 (2), 281-289 (2001) nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001) nonredundant cDNA library. Kondo,S. Saito,T., Shihada,A., Aizawa ,K., Fukuda,S., Hara,A., Itoh,M., Kawai,J., Shihada,K., Arakawa,T., fshii,Y. and Hayashizaki,Y. Mapping of 19032 mouse CDNAs on mouse chromosomes. J. Struct. Please visit our web site (http://genome.gsc.riken.go.jp) for further details. commond fishedia.</pre>	コーノノノノ	<pre>/der_brost=menue /lab_hrost=menue /note="Site 1: Sal1; Site_2: BamHI; cDNA library was /note="Site 1: Sal1; Site_2: BamHI; cDNA library was project of Genome Exploration Research Group in Riken Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKBN, Division of Experimental Animal Research in Riken RIKBN, Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5,</pre>	GAGAGAGAAGGATCCAAAGACTCTTTTTTTTTTTTTTTT	<pre>partment of Neurobiology, Harvard Medical School, 200 gwood Ave., Boston, MA02115, USA, whose assistance we atefully acknowledge." 203 c 188 g 144 t 1 others 16.4%; Score 514.2; DB 10; Length 655; 87.8%; Pred. No. 2.5e-99;</pre>	<pre>4; Conservative 0; Mismatches 74; Indels 5; Gaps Accrederrenerrenesegegegegegegegegegegegegegegegegegeg</pre>	QY449CGGCTGAGTGAGTCGAGGAGGCCTGGTTGGTGGGGGT 508Db112GGCTGAGTGACCAGGAGGACCTGGTGGTGGTGGGCTTTGGCATGGCGT 181Db122GGCTGAGTGACCAGGAGCACTGGGGGCTCGTGGGGCTGGGCTTTGGCATGGCGT 181QY509TTGCCGTGGTCGACGACGCCTGGCAGTATCTGGCTGGGGCTGG 568QY509TTGCTGTGGTCGATGGCCCCCAGTACTGGTCTGGCCGGAATCTGGTCTGAGTCACTGG 568QY509TTGCTGTGGTCGATGGCCTGCCCCGAGTATCTGGTCTGAGTCACTGG 568QY569GGACCCTGTGGCCTGCCCCCCCCCCCCCGGAATTCGTCTGAGTCACTGG 528QY542GGACCCTGTGGCCCCCCCCCCCCCCCCCCCGAGAATTCGCCGGGGGGG 301QY629TGGAGCCTGGGCCGGGCAACTTCATCGCCCCCCGGAACGGGGGGGG

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1160 ACCATGGACTGGGGCGGGTCTGGCGGCGCGGGGCTGGGGGGCGCGGGGCT 1480 TATGACAATGGCACCCTGGACATCTTCATCACCACATTCTCAGGACAGTGGTGCTTCACC 1480 TATGACAATGGCACCCTGGACATCTTCATCACCACATTCTCAGGACAGTGGTGCTTCACC 1200 TTCCCCAACGGGACCCTTAGAGATTGGGGTGACGGTGGGGGGCGCTGGGGGGCTACGC	1540 TECATTECTECCAATECTECCEGAAGAGECAATGGTGGAGGGTCTCCATCGTCCAG 	1940 TIGCCCCATGGTGGGGAACAGCGGGGGGGGGGGGGGGGGG	160 THEATERCICCEGECAGECAGECGEGEGEGEGEGEGEGEGEGEGEGEGE	1720 AAAAGCCCCCCGGAACGGGCTGTGCTTGTCTGAAGTGAACGACCACCACCTCG 	QY 1780 AAGTGGTCTCACGAAGTCAGCCCCGGGGGGGGGAATGTACGACTGCGCG 1830 	457 bp mRNA linear EST 09-	NA BUYELUS.YI SCINEIGEF FECAL DTAIN UUUY HOMO SAPIENS 1 AM16312783333 5', mRNA sequence. 1 AM163387.1 GI:6302420	ALIVOKUS b51. SOURCE human. ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia: Eurbaria: Drindatas: Craniata; Hominidae: Homo	, Bowles, I	TITLE WashU-NCI human EST Project and Wilson,R. TITLE WashU-NCI human EST Project JOURNAL Unpublished (1997)	Contact: Wilson RUL Contact: Wilson RU Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108	<pre>ILI 314 286 1800 Fax: 314 286 1810 Email: est@watson.wustl.edu This clone is available royalty-free through LLNL ; contact the TWAR Clone is available royalty-free through LLNL ; contact the</pre>	reverse consortion transmission and the from Gibco High quality sequence stop: 435. Location/Qualifiers	/ ef="Homo sapiens" ef="taxon:9606" ="IMADE:2783333"	brain 00004 onception"	/laD_nost="DHLUB" /note="Organ: brain; Vector: pBluescript SK (Stratagene); Site_1: SStI; Site_2: Xho1; Double-stranded CDNA was prepared from human fetal brain tissue. 5' and 3'	adaptors were used in cloning as follows: 5' adaptor sequence: 5'-GAGAGAGAAGAAGGATCCTTAATTAAATTAATCCCCCCCC
<pre>/tissue type="Muscle, rhabdomyosarcoma" /clone Tib="NIH MGC 17" /lab host="DH10B-R"- /note="Vector: pOTB7" BASE COUNT 329 a 648 c 558 g 318 t ORIGIN</pre>	Query Match 15.7%; Score 492.6; DB 11; Length 1853; Best Local Similarity 63.2%; Pred. No. 1.1e-94; Matches 828; Conservative 0; Mismatches 444; Indels 39; Gaps 3;	Qy 520 GAGGCCTGGCCCCAAGTACTGTGGCGAAATCTGTCTGAGGTCACTGGGGACCCTGTGC 579 Db 272 GCGGCTGGCCGGCTGGCGTCTGCCAGAACCTGTCCGAGGTCGCTCAGCACCTCTGT 331	Qy 580 CCCTCCAAGGGGCTGCTTTTGTACCCCCTGATATTGACCGGCGGACAGTGGGGC 639 Db 1 <th>Qy 640 CTGGGGGGGAACTTCATCATCAACGACGCGCGGGAACTTTGCCAACATGACGGGGGCTG 699 01 1 1 1 1 1 1 1 1 10 392 CTGGCTGAACATTCATCCAGGGCCCCTGGGGCCCCCTGACATGACGGGGGCTG 451 451</th> <th>Qy 700 GTGGACCTGACCTGTCCAGGAACACCATCAGCCATCAGCCATTTCCTTTTCTGGAC 759 Qy 10 11 11 11 11 11 11 Db 452 GTGGACCTGACTCTCGCCATCACCCATCACCCGCATTGGGGCCCGGCCTTTGGGGAC 511</th> <th>Qy 760 CTCGAGAGCCTCCGCTCCTGAATCTGACAGCATCGGCTGCCAAGCCTTGGGGAGGAC 819 V 111111111111111111111111111111111111</th> <th>Qy B20 Accercededecrospecaceaceaceaceaceaceaceaceaceace B79 1</th> <th>QY B80 ATGGCAGATGAGGCTTTTGAGGACTTCCTGCTGACGATCTGGAGCTCTCCTAC 939 01 1</th> <th>QY 940 AACAACCTCCATGGCCTGCGGGACTCGGGGCAGGGCAGG</th> <th>Qy 1000 AGCCTGGACCACCAGCTGGATCACATCGCCGGGGGCACCTTGCAGGAAA 1059 V </th> <th>Qy 1060 CTGGCCCGCCTGGATCTCATCATCGCTCATCGAAGCTGCCCCCGATCTTT 1119 Db 11 111111111111111111111111111111111111</th> <th>Qy 1120 GCCGGCTCCGGGCTTGGGCTTTGACCCTCTGCCCCTTGCCCTTTGGT 1179 Db 872 TCTGGTGGGGGGGGGTATGCAGAGGCCTCTCCCGGCCCCCTGGGGGGGGGG</th> <th>Oy 1180 TTTGGGGGTAACCCACTTCATGCAATTGTGGCTTCTGGCTGG</th> <th>QY 1240 GACGATGACCTGGAAACCTGGGGGCCTCCAGGGGGCCTCAGGGTGCTTCTGGCAT 1299 Dp 980 CCGGACGACCTGGAAACGTGCGCCTCCCGGCCGGCCGGCC</th> <th>Qy 1300 GTGGGTGAGGAGGAGTTTGTGGGGGGGGGGGGGGGCGCTCTCATCACCCGGGCAGCAGGTTG 1359 Db 11010 1111 1111 1111 1111 1111 Db 1040 GTGCCGAGGGGGGGGGGGGGCGCCCCTCATTGCCCGCGCACCGCGCGCG</th> <th>Qy 1360 CTGGTTCTGGAGGGCCAGGCGGCCACACTCAAGTGCAAAGCCATTGGGGACCCCGGCCCC 110 111 111 111 110 TGGGTGCTGGAGGCCAGGCCAGGCTGCGGGGCCCTGGGTGACCCCGGGCCT 1159</th> <th>Qy 1420 CTTATCCACTGGGTAGCCCCCGATGACGCCTGGTAGGGAACTCCTCAAGGACCGCTGTC 1479 Qy 1420 11111111 11111111 11111111</th>	Qy 640 CTGGGGGGGAACTTCATCATCAACGACGCGCGGGAACTTTGCCAACATGACGGGGGCTG 699 01 1 1 1 1 1 1 1 1 10 392 CTGGCTGAACATTCATCCAGGGCCCCTGGGGCCCCCTGACATGACGGGGGCTG 451 451	Qy 700 GTGGACCTGACCTGTCCAGGAACACCATCAGCCATCAGCCATTTCCTTTTCTGGAC 759 Qy 10 11 11 11 11 11 11 Db 452 GTGGACCTGACTCTCGCCATCACCCATCACCCGCATTGGGGCCCGGCCTTTGGGGAC 511	Qy 760 CTCGAGAGCCTCCGCTCCTGAATCTGACAGCATCGGCTGCCAAGCCTTGGGGAGGAC 819 V 111111111111111111111111111111111111	Qy B20 Accercededecrospecaceaceaceaceaceaceaceaceaceace B79 1	QY B80 ATGGCAGATGAGGCTTTTGAGGACTTCCTGCTGACGATCTGGAGCTCTCCTAC 939 01 1	QY 940 AACAACCTCCATGGCCTGCGGGACTCGGGGCAGGGCAGG	Qy 1000 AGCCTGGACCACCAGCTGGATCACATCGCCGGGGGCACCTTGCAGGAAA 1059 V	Qy 1060 CTGGCCCGCCTGGATCTCATCATCGCTCATCGAAGCTGCCCCCGATCTTT 1119 Db 11 111111111111111111111111111111111111	Qy 1120 GCCGGCTCCGGGCTTGGGCTTTGACCCTCTGCCCCTTGCCCTTTGGT 1179 Db 872 TCTGGTGGGGGGGGGTATGCAGAGGCCTCTCCCGGCCCCCTGGGGGGGGGG	Oy 1180 TTTGGGGGTAACCCACTTCATGCAATTGTGGCTTCTGGCTGG	QY 1240 GACGATGACCTGGAAACCTGGGGGCCTCCAGGGGGCCTCAGGGTGCTTCTGGCAT 1299 Dp 980 CCGGACGACCTGGAAACGTGCGCCTCCCGGCCGGCCGGCC	Qy 1300 GTGGGTGAGGAGGAGTTTGTGGGGGGGGGGGGGGGCGCTCTCATCACCCGGGCAGCAGGTTG 1359 Db 11010 1111 1111 1111 1111 1111 Db 1040 GTGCCGAGGGGGGGGGGGGGCGCCCCTCATTGCCCGCGCACCGCGCGCG	Qy 1360 CTGGTTCTGGAGGGCCAGGCGGCCACACTCAAGTGCAAAGCCATTGGGGACCCCGGCCCC 110 111 111 111 110 TGGGTGCTGGAGGCCAGGCCAGGCTGCGGGGCCCTGGGTGACCCCGGGCCT 1159	Qy 1420 CTTATCCACTGGGTAGCCCCCGATGACGCCTGGTAGGGAACTCCTCAAGGACCGCTGTC 1479 Qy 1420 11111111 11111111 11111111

Page 9

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685 bp mRNA linear EST 31-AUG-2001 RIKEN full-length enriched, adult retina Mus musculus cDNA 365 360 485 240 300 425 ; 0 120 245 121 ATCTGGAAGAAGAAGAAGATGGTTTTCCCCCCCTTCTTGTTAAATGCCATGG 180 Library 185 The library was 125 60 (Stratagene) crecarricecceeaecceecceeaeerrraecriceaercrercreeeceeaaeeare crician in a construction of the construction cereescoevescoevescoevescoevescoevescoevescoevescoevescoeves 301 cerescionadocodesececcodesececcodesecerceseceresece 61 GATCGGAAAATCCTACGGCATCCTCCTAGGGAGGGATTATTATTATTATTATTTTCTTA 61 GATCCGGAAAATCCTACCGGCATCCTCCTAGGGAGGGATTATTATTATTATTTTTCTTA 186 arcregaagaagaagaagaagaagaagaagargeririceeeeeerreg ACTTGAAGACCCCCCACATTCCAGGATGCCCCGAGGTTCCTGGGAATGCCTGGGGTTCTTC 66 ACTTGAAGACACCCCAACATTCCCAAGATGCCCGAGGTTCCTTG Email: est@watson.wustl.edu This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@mage.llnl.gov) for further information. Seq primer:|-40RP from Gibco High quality sequence stop: 431. Location/Qualifiers Gaps /_______K (Stratage strain, Vector: pBluescript SK (Stratage stratage strat.) Strept: .. 0 Length 435; Indels /tissue_type="frontal lobe" /dev stage="5 months post-conception" /lab_host="DH10B" 10; 13.4%; Score 422.8; DB 10; 98.2%; Pred. No. 7.5e-80; tive 0; Mismatches 8; CCTGCTAGCGTTTGG 500 435 ccreccracertred Conservative sequence Similarity BB278209 BB278209 80 Query Match Best Local Simil Matches 427; C 426 486 421 181 306 241 366 126 RESULT 11 BB278209 LOCUS DEFINITION BASE COUNT ORIGIN source FEATURES Db. q 20 ЧC qq \mathcal{S} g \mathcal{S} S ą δ q δ \mathcal{S} đ \mathcal{S} AW161566 435 bp mRNA linear EST 09-NOV-1999 au71e01.yl Schneider fetal brain 00004 Homo sapiens CDNA clone IMAGE:2781720 5', mRNA sequence. and 3' adaptor sequence: 5'-GAGAGACTCGGGTTTTTTTTTTTTTTTTTTT"3'. The library was 5'-GAGAGAGACTCGGGTTTTTTTTTTTTTTT"3'. The library was size-selected for >0.5 kb inserts and has an average insert size estimated at 1.2 kb. This library was insert size estimated at 1.2 kb. This library was onstructed using the CAP-trapper method for full-length constructed using the CAP-trapper method for full-length constructed using the CAP-trapper amplification. Library was constructed by Dr. Claudio Schneider (LNCIB-Area a 131 c 140 g 103 t ÷ corecarrescessasecescessesses and a set as a set of the 424 185 120 121 HTTTGGAAGAAGAAGAAGTTGTGGCTTTTCCCCCCTTCTTGCTAATGCCATG 180 246 ATATAACTGAAT - AAGCGGCTCAGGGCTTTCCCCCGCGTGGAGGCCACCATCTCTG 304 240 245 125 60 181 ATATAACTGAATAAAGCCGCTCAGGGCTTTCCCCGCGTGGGCGGCCGCCATCTG 66 ACTTGAAGACACCCCACATTCCCAAGATGCCCGAGGTTCCTGGGGAATGCCTGGGGGTTCTTC 1 ACTTGAGGACACCCACATTCCAGGATGCCCGGGGGTTCCTGGGAATGCCTGGGGTTCTTC Gaps 63108 1; Length 457; Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO Tel: 314 286 1800 Fax: 314 286 1810 Indels Score 441.8; DB 10; Pred. No. 6.7e-84; 0; Mismatches Unpublished (1997) Other ESTs: au71e01.x1 Contact: wilson RK AW161566.1 GI:6300599 14.1%; { nilarity 99.3%; 1 Conservative 0, Similarity AW161566 human. 83 EST 454; 305 Query Match Best Local Si Matches 454) 241 365 301 425 61 186 ACCESSION VERSION KEYWORDS SOURCE ORGANISM TITLE JOURNAL DEFINITION REFERENCE AUTHORS RESULT 10 AW161566 COUNT COMMENT LOCUS BASE CC ORIGIN Tue qq 8 g q δ qq đ \mathcal{S} 8 q δ q δ ą δ \mathcal{S}

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2712 2772 2949 2889 3003 3053 GCCGGACTGAGCCCTGAGTGTTTGGAAAGGCGAGACTCCGCCTTTCTAATCACAAATGTA 3112 ; (2473 AAGGAGGAGCTGCTGGACTCCAGGACTCCAGCCGGGAGGAGGGGGCTGGGACGTCGGCCCGG 2532 GGCCACCACCGGACCGAGGCCACTGCTGGGGGCCCCCTGGGGGCCGGGGCCAGGAGCCTG 2592 2832 3004 CCCCA------CCACCCGGCCGGGGTGTGCTCAGGGAATGTGGACTCGCTCAAAT 3052 BM193100 357 bp mRNA linear EST 13-DEC-2001 TCBAP1D9544 Pediatric pre-B cell acute lymphoblastic leukemia 180 295 GACCTGGTGGTGGCGCGGGGGGGGCATTTTGGCAGGCTCAGGTGGGTAATGGAAGGTAGTGTG 354 Geccaccactcagaccagageccactgergegecccccggeccaccgeccageagetetr 120 234 294 414 474 534 593 653 GAGAGAGAGAAGGATCCAAGAGCTCTTTTTTTTTTTTTVN 3'], cDNA was 60 415 CAGCACTGGCAAGTATTTGTGGGAGTTTCCATGGTGATGTTACATCCAGGGGACAGTGTTG scaecrecaecrec - - - - - - accretrecreerecracaerecererec GACCTGGTGGGGGCCCGGGGGACTTTTTGGCAGCTCCGAATGGGTGATGGAGCACGGTC 594 GTCAGACTGAGCCCTGAGTGTTTGGAGGGGGGGGGCCAACTACTGCCTTTCTATTCACAAATGTA 2833 TAGGTGGGGGGGG-GCATGCTCCCTTTCCTGTGCGCAGGGGGGGAAAGGGGGAAAGAA--355 TAGCCAGGGAAGGAGTACCCTCCCTCCCACCCTCAAAGTGGGAGGAGGAGTCGGAGT 2890 TCTCACTGGCAAGTGTTTGTGGGAGTTTCCATGGTGATGTTTACATCCAGGGACAGTTTCG 475 rerecercitercalecercarerecercerecedecracecerececerecerecere AACATCTGGACGAAGCGCAGCCTCTCTGTCAACGGCATGCTCTTGCCCCTTTGAGGAGGAGT TCTCCCTGTCATGGCCTCGTGTC - - - - - CCCCCCTACCCCGCAACACCCCACATCACCT Gaps 28; Length 685; 12.0%; Score 377.2; DB 10; Length 78.9%; Pred. No. 4.3e-70; cive 0; Mismatches 118; Indels 3144 684 144 t 3113 GCCTACAAGCAAGCGGCTTTGGATTGCTTATG 654 G-CGACAAGCAAGCGGCTTCGGATTGCTTATG 196 g 199 c Matches 546; Conservative Query Match Best Local Similarity ത 146 ч 2533 2593 2653 2713 2773 2950 61 121 181 235 RESULT 12 BM193100 LOCUS DEFINITION BASE COUNT ORIGIN q q g \mathbf{S} q 5 g δ qq δ q \hat{o} q 5 δ 8 8 g à g 5 g à å L Unpublished (2001) On Jul 7, 2000 this sequence version replaced gi:8975231. Contact: Yoshihide Hayashizaki Laboratory for Genome Exploration Research Group, RIKEN Genomic Contact: Yoshihide Hayashizaki Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute The Institute of Physical and Chemical Research (RIKEN) 1-7-22 Suchtro-cho, Turumi-ku, Yokohama, Kanagawa 230-0045, Japan Tell: 81-45-503-9216 Email: genome-reseges riken.go.jp, URL:http://genome-gsc.riken.go.jp/ Carnincip.P. Shibata,Y. HayateuN.N. Sugahara,Y., Shibata,K., Itoh M., Konno,H., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y. Normalization and subtraction of cap-trapper selected CDMs to prepare full-length CDM libraries for rapid discovery of new genes. Genome Res. J 010(1), 1617-1630 (2000) wagi.K., Fujiwake,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Watahiki,M., Yokazaki,Y., Muramatsu,M., Inoue,Y., Kira,A. and Hayashizaki,Y. Mustime mustime Mustaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eutaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eutaryota; Hetheria; Rodentia; Sciurognathi; Muridae, Murinae; Mus, 1 (basea, T., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A. Arakawa, T., Carninci, P., Ishii, Y., Ito, M., Kawai, J., Kono, H., Kouda , M., Koya, S., Matuyama, T., Miyazaki, A., Nomura, K., Ohno, M., Okazaki, Y., Okido, T., Saito, R., Sakai, C., Sakai, K., Sano, H., Saaaki , D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Suzuki, H., , M., Ragami, M., Tagawa, A., Takakashi, F., Takeda, Y., Tanaka, T., Toya, T., Mrramatsu, M. and Hayashizaki, Y. RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000) Shibata,K., Itoh,M., Carninci,P., Sugahara Konno,H., Fukunish,Y., Shibata,K., Itoh,M., Carninci,P., Sugahara ,Y. and Hayashizaki,Y. ,Computer-based methods for the mouse full-length CDNA computer-based methods for the mouse full-length CDNA anonter-based methods for the mouse full-length CDNA reconductar rations sequence clustering for construction of a nonredundant CDNA library. Genome Res. 11 (2), 281-289 (2001) Yamanaka,I., Kiyoswa,H., Kondo,S., Saito,T., Shihagawa,A., Aizawa Y., Fukuda,S., Haza,M., Y. cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to /note="Site_1: Sal1; Site_2: BamH1; CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. Ist strand cDNA was Mapping of 19032 mouse cDNAs on mouse chromosomes. J. Struct. Punc. Genomics 2 pre, L72-186 (2001) Please visit our web site (http://genome.gsc.riken.go.jp/) for further details. /clone="A930000011" /clone lib="RIKEN full-length enriched, adult retina" /tissue_type="retina" clone A930009011 3', mRNA sequence. 'organism="Mus musculus" xref="taxon:10090" Location/Qualifiers /dev_stage="adult" /lab_host="DH10B" BB278209.2 GI:15410982 prepare mouse tissues .685 ą, house mouse. BB278209 EST source SOURCE ORGANI SM ACCESSION VERSION KEYWORDS REFERENCE AUTHORS TITLE JOURNAL COMMENT FEATURES

primed with a primer [5'

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Tue Jun 10 08:57:38 2003 us-09-831-846-1	Baylor-HGSC project=TCBA Homo sapiens cDNA clone TCBAP9544, mRNA sequence ACCESSION BM193100 WRESTON BM193100.1 GI:17651296 KEYWORDS EST. SOURCE human.	ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Bukaryota; Butheria; Primates; Catarrhini; Hominidae; Homo. Mamalia; Butheria; Primates; Catarrhini; Hominidae; Homo. MurHORS (base; J to 357) AUTHORS Wei,Y., Tsang,Y.F.M., Mei,G., Ku,J.M., Ali-Osman,F.R. Jr., Wei,Y., Tsang,Y.F.M., Mei,G., Ku,J.M., Ali-Osman,F.R. Jr., Gunaratne,P.H., Muzny,D., Bouck,J., Gibbs,R.A. and Margolin,J.F. Pediatric Leukemia CDNA Sequencing Project (2001)	JOURNAL UNPUDLISHER (2001) COMMENT CONTACT: Dr. JUdith F. Margolin Texas Children's Cancer Center and Human Genome Sequencing Center at Baylor College of Medicine 1102 Bates, MC3-3320 Houston, TX 77030, USA Tel: 832-824-4338 Fax: 832-825-4038	Email: clones@txccc.org Seq primer: M13 primer: FEATURES 1 caton/Qualifiers source 1 cato /organism="Homo sapiens"	<pre>/db xret="taxon:youe" /clone="TCBAP9544" /clone="TCBAP9544" /clone lib="Bevlatric pre-B cell acute lymphoblastic leukemia Baylor-HGSC project=TCBA" /sex="male" /tissue_type="leukopheresis" /cell_type="leukopheresis" /dev_stage="pediatric 2 years"</pre>	<pre>/lab host="DH10B" /note="vector: lambda pSB; Site 1: BamHI; Site 2: EcoRI; /note="vector: lambda pSB; Site 1: BamHI; Site 2: EcoRI; First strand cDNA was primed with an anchored Roit-oligo(dT) primer [5: GGGGGACTCGAGGGGGGGGGGGGGGGGGGGGGGGGGGGG</pre>	lambda pSB vector. Library went througn one round of normalization. Library was constructed by Wei Yu at RIKEN of Japan (Carninci P, Westover A, Nishiyama Y, Oheumi T, Itoh M, Nagooka S, SasakiN, Okazaki Y, Muramatsu M, Schneider C, Hayashizaki Y, High efficiency selection of full-length cDNA by improved biotriylated cap trapper.	r atch cal Simi	VALIVE U; MISHALCHES T; MEGGACCTACTACTACTACTACAGCAT 12 CTGGAAACCTGGGCTCCCCGGGGGGCCTCAAGGGTCGCTACTTCTGGCAT 12 		QY 1360 CTGGTTCTGGAGGGCCAGGCGCGCCACACTCAAGCCAAAGCCATTGGGGACCCCC 1419 		QY 1480 TATGACAATGGCACCCTGGACATCTTCATCACCACATCTCAGGACAGTGGTGCTTCACC 1539

us-09-831-846-1.rst

Pag 12

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Tue Jun	In 10 08:57:38 2003	-09-831-846-1.rst	Page 13
0 0	GGCCACCACTCGGACCGAGAGCCACTGCTGGGGGCCCTGGGGCCGGGGCCAGGAGCCTG 	<pre>2592 Seg primer: -40UP from Gibco 576 FEATURES Location/Qualifiers 300 crganism="Homo sapiens" 2652 / Organism="Homo sapiens" / db zref=t_axon.000"</pre>	
07 79 1 D 07 79		<pre>2712 / Clone_lib="Schneider fetal brain 000 /sex="male" Schneider fetal brain 000 /sex="male" frontal lobe" /dev stage="5 months post-conception" /dev horenution"</pre>	00004" on"
Qy 27 Db 4	2713 ÀACATCTGGACGAAGCGCAGCTCTGTCAACGGCATGCTCTTGCCCTTTGAGGAGAGA7 2 	2772 LAG. DOSE="DATUB" V.LAG. DOSE "DATUB" V.LAG. DOSE 2772 ZATU: V.LEE="USEL" V.LAGAN: 2772 Site_1: Sitl; Site_2: Xhol; Double-stranded CDNA was 2773 Site_1: Sitl; Site_2: Xhol; Double-stranded CDNA was 2774 Propared from human fetal brain tissue. S' and 3' 2775 Adaptors were used in cloning as follows: 5' adaptors	script SK (Stratagene); -stranded cDNA was ssue. 5' and 3' ollows: 5' adaptor
Qy 27 Db 4	2773 GACCTGGTGGGGGGCCCGGGGGGCTTTTGGCAGCTCCGAATGGGTGGG	2832 Sequence:	AAATTAATCCCCCCCCCCCC-3' TTT-3', The library was
Qy 28 Db 3	2833 TAGGTGGGGGTGGGCATGCTCCCTTTCCTGTGCGCAGGGGAAGGGGAAGGAA	2891 2891 size-selected for >0.5 kb inserts and has an average insert size estimated at 1.2 kb. This library was constructed using the CAP-trapper method for full-length constructed using the undercome amplification that hrank the providement of the provide	This library was molification tibrary
Qy . 28 Db 2	2892 TCACTGGCAAGTGTTTGTGGGGTTTTCCATGGTGATGTTTACATCCAGGGACAGT 2 210	2945 was constructed by Dr. Claudio Science Park, Trieste, Italy) " 222 BASE COUNT 84 a 113 c 91 g 100 t ORIGIN	neider (LNCIB-Area others
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	AAATGCCGGGACTGAGCCCTGGGTGTTTGGAAAGGCGGGGGGGG	2841 335	
Qy 31 Db .	3109 TGTAGCCTACAAGCAAGCGGCTTTGGA 3135 	Qy 2901 AGTGTTTGTGGGGTTTCCATGGTGTGTGTGTGTCCCGGGGACAGTTTCGTCTCCCCTGTCA Db 21	CAGTTTCGTCTCCCTGTCA 2960
RESULT 14 AW161909/c LOCUS DEFINITION ACCESSION	AW161909 397 bp mRNA linear EST 09-NOV-1999 aUTE01.x1 Schneider fetal brain 00004 Homo sapiens CDNA clone IMAGE:2781720 3', mRNA sequence. AW161909	3 2 07 07	
VERSION KEYWORDS SOURCE ODCANTSM		Db 155 GGTGTGCTCAGGGAATGTGGGTTCGCTCAAATGCGGGGTTGGAGGCCCTGAGTGTTTGGAAA Oy 3081 GGCGAGGCTCCGCCTTTCTAATCACAAATGTAGCCTACAAGCAAG	AGCCCTGAGTGTTTGGAAA 96 CAAGCGGCTTTGGATTGCT 3140
REFERENCE	<pre>number depression Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleo Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. 1 (bass 1 to 397)</pre>	Db 95 07 3141	caadedeertredarrerr 36
AUTHORS	<pre>Hillier,L., Allen,M., Bowles,L., Dubuque,T., Geisel,G., Jost,S., Krizman,D., Kucaba,T., Lacy,M., Le,N., Lennon,G., Marra,M., Martin ,J., Moore,B., Schellenberg,K., Steptoe,M., Tan,F., Theising,B., White,Y., Wviie,T., Waterston,R. and Wilson,R.</pre>		
TITLE JOURNAL COMMENT	WashU-NCI human EST Project Unpublished (1997) Other ESTs: au71e01.y1 Contact: Wilson RK Washington University School of Medicine	RESULT 15 BM046297 LOCUS BM046297 DEFINITION 603626095F1 NIH_MGC_40 Homo sapiens CDNA 0 DEFINITION 603626095F1 NIH_MGC_40 Homo sapiens CDNA 0	linear EST 07-NOV-2001 clone IMAGE:5452630 5',
	444 Forest Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: est@watson.wustl.edu This clone is available royalty-free through LLNL ; contact the IMAGE Consortium (info@image.llnl.gov) for further information.	ACCESSION BM046297.1 GI:16775564 VERSION BM046297.1 GI:16775564 KEYWORDS EST. SOURCE human. ORGANISM Homo sapiens ORGANISM Homo sapiens Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;	tebrata; Euteleostomi;

Tue Jun 10 08:57:38 2003

us-09-831-846-1.rst

Pag 14

Db 482 TGATGCAGAGG CCTCTCCCGCCCCCTGGTGGCTTAGCGGGGA 529 Qy 1191 CCCACTTCAGTGCAATTGTGAGCTTCTCGGCTGGCGGGGGGGG	Search completed: June 8, 2003, 19:02:56 Job time : 3928 secs		· ·			· · ·	· ·	-				
<pre>Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. AUTHORS II (bases 1 to 708) AUTHORS NIH-MGC http://mgc.nci.nih.gov/. NIH-MGC http://mgc.nci.nih.gov/. TITLE National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999) COURNAL Unpublished (1999) Contact: Robert Strausberg, Ph.D. Email: cgapbs-remail.nih.gov Tissue Procurement: DCTD/DTP CONMENT Contact: Preparation: Ling Hong/Rubin Laboratory CONM Library Preparation: Ling Hong/Rubin Laboratory CDNA Library Preparation: Ling Hong/Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov</pre>	Plate: LLCM1944 row: n column: 23 High quality sequence stop: 704. FEATURES Location/Qualifiers	<pre>Action = "Image "Homo sapiens" (db xref="taxon:9606" /clone=lib"WIH MGC:440" /clone=lib"WIH MGC:440" /clone=lib"WIH MGC:440" /lab host="HHIDB (phage-resistant)" /note="Organ: prostate; vector: poTB7; Site_1: Xho1; Site_2: Ecoth; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGCAGGG(G). Library constructed by Ling Hong in the laboratory of Gerald M Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Strategene) and Superscript II RT (Life Technologies). BASE COUNT 101 a 272 c 209 g 126 t ORIGIN</pre>	Query Match 9.9%; Score 310.6; DB 13; Length 708; Best Local Similarity 65.8%; Pred. No. 7e-56; Matches 473; Conservative 0; Mismatches 234; Indels 12; Gaps 1;	QY 651 CTTCATCATCACACACGCCCAGGACTTTGCCAACATGACGGGGGCTGGTGGACCTGAC 710 Db 2 CTTCATCCAGGGCCCTGGGGCCCCTGACTTCCGCAACATGACGGGGACTGGTGGACCTGGAC 61	Qy 711 CTGTCTCAGGAACACCATCCAGCAATCCAGCCCTTTTCCTTTCGACCCGAGAGCCT 70 U 11 10 Db 62 ACTGTCTGCGAATCCCATCACCGGCATTGGGGCCCCGGGCCTTTGGGGGGCCTCGGGGGGCCCT 121	QY 771 CCGCTCCCTGCATCTTGACAGCAATCGGCTAGCCTTGGGGAAGGAA	QY 831 CCTGGGTCAACCTGCAGCACCTATCGTGAACAACCAGCTGGGGGGGCAATCGCAGCAGG 890 I IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	QY 891 GGCTTTTGAGGACTTCCTGCTGCTGCTGCAGGACCTTGGAGGACCTCCTACACCTCCA 950 1 1 1 1 1 1 1 1 1 1<	QY 951 TGGCCTGCGGGGACTCGGGGAGGCATGGTCACCTCCACCAGCTGAGCCT 1010 Db 302 GCAGGTGCCTGGGGCGCGATGGCCCTGCCTGCCCTCAACCTGGACCA 361	QY 1011 CAACCTGGTGGTGGTCACTCGCGGGGGCACCTTTGCAGACCTGGCCGGCC	QY 1071 GGATCTCAATCGGCTGCAGAGGCTGCAGAGCTCCCATCTTTGCCGGCTCCCA 1130 Db 122 GGACCTCCAACCGCCTGGCCGCGCGGGGCCCCGGACCCGGTTTTCTCTCGTGGGGG 481	QY 1131 GCCTTCGGCTTTGACAGCCACCCCCTTGCCCTTGCTTTGGGGGGTAA 1190

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1573 38.4 628 22 1573 38.4 628 22 1566 38.3 628 22 1563.5 38.2 627 23	1545.5 37.8 551 23 1468.5 35.9 526 22	1319.5 32.2 533 1313.5 32.1 503 1224 30.3 768	1144 27.9 468 22 1144 27.9 468 23 721 17.6 160 22	651 15.9 136 22 511 12.5 180 22 511 12.5 180 22 452 11.0 713 23	451 11.0 713 22 443.5 10.8 656 23	435.5 10.6 640 20 435.5 10.6 640 20	435.5 10.6 640 21 435.5 10.6 640 21 435.5 10.6 640 21	435.5 10.6 640 435.5 10.6 640 435.5 10.6 640 435.5 10.6 640	435.5 10.6 640 22 420.5 10.3 606 23	419 10.2 606 23 419 10.2 606 23 8.5 10.2 606 23 8.5 10.2 606 22 8.5 10.2 606 22	ALIGNMENTS	· RESULT 1 AAB09968 ID AAB09968 standard; Protein; 789 AA.	AAB09968;	DT 19-OCT-2000 (first entry) XX DE Human brain-specific transmembrane glycoprotein.	Transmembrane glycoprotein; human; neuroactive; neuroprotective; cereb treatment; nervous disease; diagnos	xx OS Homo sapiens. xx	PN WO200031256-A1. XX PD 02-JUN-2000.		PR 20-NOV-1998; 98JP-0331727. XX	PA (CHUG-) CHUGAI RES INST MOLECULAR MEDICINE INC. PA (KAZU-) KAZUSA DNA RES INST XX	PI Funahashi S, Miyata S, Nomura N, Nagase T, Ohara XX DR WPI; 2000-411954/35.	
version 5.1.6 - 2003 Compugen Ltd.	sw model .	19:03:03 ; Search time 63 Seconds (without alignments) (fee one Million coll underso/con		METLLGGLLAFGMAFAVVDADLVGARGIFGSSEWVMESTV 789 JOSUM62 Ganext 0 5	č.	hits satisfying chosen parameters: 908470	0 200000000	Match 0% . Match 100% . first 45 summaries		/SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1980.DAT: /SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1981.DAT: /SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1983.DAT: /SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1983.DAT: /SIDS2/gcgdata/geneseq/geneseqp-emb1/AA1983.DAT:	gdata/geneseq/geneseqp-embl/AA1986.DAT:* gdata/geneseq/geneseqp-embl/AA1987.DAT:* gdata/geneseq/geneseqp-embl/AA1988.DAT:*	cgdata/geneseq/gensecgp-embl/AA1999.DAT:* cgdata/geneseq/genesegp-embl/AA1990.DAT:* cgdata/geneseq/genesegp-embl/AA1991.DAT:* cgdata/geneseq/genesegp-embl/AA1992.DAT:*	cgdata/geneseq/geneseqp-embl/AA1993.bAT:* cgdata/geneseq/geneseqp-embl/AA1994.bAT:* cgdata/geneseq/geneseqp-embl/AA1995.bAT:*	cgdata/geneseq/geneseqp-embl/AA1995.DAT:* cgdata/geneseq/geneseqp-embl/AA1997.DAT:* cqdata/genesec/fenesecp-embl/AA1999.DAT:*	cgdata/geneseq/genesegp-embl/AA1999.DAT:* cgdata/geneseqpenesegp-embl/AA2000.DAT:* cgdata/geneseqgreenesegp-embl/AA2001.DAT:* cgdata/geneseq/genesegp-embl/AA2002.DAT:*	No. is the number of results predicted by chance to have a greater than or equal to the score of the result being printed,	of the total SUMMARIES	DB ID Description	1 AAB09968 Human	AAU28092 Novel AAM39059 Human AAB12448 Human	22 AAG67505 Amino acid sequenc 23 ABP43533 Human secreted pro 22 AAG67512 Amino acid sequenc	AAE23980 Human

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typical PDZ protein binding motif and functions as a cellular signal	transducer, useful in developing drugs for treating nervous diseases
nctions a	or treati
f and fur	drugs fo
ling moti	veloping
ein bind	ul in de
PDZ prot	cer, usef
tvpical	transdue

Claim la; Page 52-57; 63pp; Japanese.

This invention describes a novel gene encoding a human brain-specific transmembrane glycoprotein that has a typical PDZ procein binding motif and functions as a cellular signal transducer. The product of the invention has neuroactive, neuroprotective and cerebroprotective contrasting nervous the neuroperceter are useful in developing drugs for for treating nervous diseases, and also for studying functions of the nervous system or onset mechanism of nerve-related diseases. They may also be used for the production of diagnostic reagents such as the nervous system or onset methanism of the tercoing proteins comprising produce and identify modulators of the proteins expression and cused to produce and identify modulators of the proteins expression and cused to produce and identify modulators of the proteins expression and cused to produce and identify modulators of the proteins expression and cused the numan brain-specific transmembrane glycoprotein described in the method of the invention.

540 540 600 600 660 660 720 ö 480 420 420 480 240 240 300 GNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREBEFVCEPPLITQHTHKLLV 300 360 360 120 120 180 180 60 60 ASLDLKSQRKEELLDSRTPAGRGAGTSARGHHSDREPLLGPPAARARSLLPLPLEGKAKR KUVURNELLDFTASLARASDSSSSSSSSSSGGGGGAGGLAPPSAPRPKPSLDRLMGF AANAAGEATAMVEVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGSGGGEPPKS 361 AANAAGEATAMVEVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGSGGGGEPPKS PPERAVLVSEVTTTSALVKWSVSKSAPRVKMYQLQYNCSDDEVLIYRMIPASNKAFVVNN PERAVLVSEVTTTSALVKWSVSKSAPRVKMYQLQVNCSDDEVLIYRMIPASNKAFVVNN LVSGTGYDLCVLAMWDDTATTLTATNIVGCAQFFTKADYPQCQSMHSQ1LGGTM1LVIGG LVSGTGYDLCVLAMMDDTATTLTATNIVGCAQFFTKADYPQCQSMHSQILGGTM1LVIGG 541 IIVATLLVFIVILMVRYKVCNHEAPSKMAAAVSNVYSQTNGAQPPPSSAPAGAPPQGPP KVVVRNELLDFTASLARASDSSSSSLGSGEAAGLGRAPWRIPPSAPRPKPSLDRLMGAF 1 METLLGGLLAFGMAFAVVDACPKYCVCONLSESLGTLCPSKGLLFVPPDIDRRTVELRLG 1 METLLGGLLAFGMAFAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLG GNFIIHISRQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGEDTL 61 GNFIIHISRQDFANMTGLVDLTLSRNTISHIQPESELDLESLRSLHLDSNRLPSLGEDTL RGL VNLQHL I VNNNQLGG I ADEAFEDFLLITLEDLDLS YNNLHGL PWDS VRRWVNLHQLSL DHNLLDHIAEGTFADLOKLARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLSFSFG GNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLV LEGQAATLKCKAIGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCI LEGOAATLKCKAIGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCI Gaps . 0 DB 21; Length 789; Indels 100.0%; Score 4094; DB 21; 100.0%; Pred. No. 1.8e-303; ive 0; Mismatches 0; Conservative Best Local Similarity Matches 789; Conserv 789 AA; 421 601 661 601 661 301 481 481 121 181 241 301 361 121 181 241 421 61 Sequence Query Match Best Local 1 g δ qq \mathcal{S} đ 8 Db. 8 q δ g δ 8 q g qd δ å q \mathcal{S} 8 5 g 8

The invention relates to novel isolated human secreted polypeptides (I) and polymucleotides (II). (I) and (II) are useful for treating cf inflammatory conditions such as arthritis, nephritis, Crohn's disease, inchaemia-repertision injury, shock, sepsis, immune responses, and is involved in increasing haematopoists, stem cell survival, bone growth cf involved in increasing haematopoists, stem cell survival, bone growth cc and remodeling. (I) (II) and modulators of (II) are useful for prophylaxis or treatment of one or more cancers. (II) is also useful for creating transgenic animals useful for studying the in vivo activities of the polypeptide as well as for studying modulators of the polypeptides. (I) induces the proliferation of neural cells and regeneration of nerve cand brain tissue and is usessed and neuropathies, such as Alzheimer's, partinberal nervous system diseases, and anyotrophic lateral calcinosis. In addition, (I) is involved in chemotactic or chemokinetic 780 780 Ma Y, Zhou P; J, Wang J; 121 SHSFDMGDFAAAAAGGVVPGGYSPPRKVSNIWTKRSLSVNGMLLPFEESDLVGARGTFGS Human; secreted protein; arthritis; Crohn's disease; sepsis; shock; ischaemia-reperfusion injury; haematopoiesis; cancer; neuropathy; transgenic animal; Alzheimer's disease; Parkinson's diseases burn; amyotrophic lateral sclerosis; platelet disorder; thrombocytopenia; ulcer; osteoporosis; bone degenerative disorder; periodontal disease; gut protection; lung; liver fibrosis; immune deficiency; infection; gut confined immundeficiency; SclD; autoimmune disorder; allergy; multiple sclerosis; reamatoid arthritis; diabetes mellitus; asthma; fertility; analgesic; pain; antigen SHSFDMGDFAAAAGGVVPGGYSPPRKVSNIWTKRSLSVNGMLLPFEESDLVGARGTFGS ų Novel polypeptides and nucleic acids obtained from CDNA libraries prepared from various human tissues, for diagnosis and treatment cancer, neurological, inflammatory, and autoimmune disorders n F, Ma Xue AJ, Ren В, Wehrman T, g J, Chen Novel human secretory protein, Seg ID No 261. Example 4; SEQ ID'NO 261; 107pp; English. Xu C, Wehrm r, Zhang J, Å. AAU28092 standard; Protein; 789 Liu C, 'Asundi V, Xı Yang Y, Drmanac RT, 07-WAR-2000; 2000UG-0519705. 19-MAY-2000; 2000UG-0574454. 17-JUN-2000; 2000US-0596193. 14-JUL-2000; 2000US-0616847. 19-SEP-2000; 2000US-0665363. 20-OCT-2000; 2000US-0693267. 05-MAR-2001; .2001WO-US04942 (first entry) 789 789 WPI: 2001-589934/66 (HYSE-) HYSEQ INC. SEWVMESTV SEWUMESTV N-PSDB; AAS44992 WO200166689-A2. Homo sapiens 13-SEP-2001. 18-DEC-2001 Tang YT, Zhao QA, AAU28092; 721 781 781 RESULT 2 AAU28092 8 qD g δ 5

The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral neurous system, such as peripheral nervous injuries, peripheral neuropathy and collised neuropathies and central nervous system diseases, euch as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system supression, 780 Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and The sequence data for this patent did not form part of the printed Wang D; Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; SHSFDMGDFAAAAAGGVVPGGYSPPRKVSNIWTKRSLSVNGMLLPFEESDLVGARGTFGS peripheral nervous system, neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation; Novel nucleic acids and polypeptides, useful for treating disorders such as central nervous system injuries -Ren F, Wa Zhang J; Qian XB, Yang Y, Chen R, Ma Y, Xu C, Xue AJ, R, Drmanac RT; Example 4; SEQ ID NO 2204; 10078pp; English AAM39059 standard; Protein; 789 AA Human polypeptide SEQ ID NO 2204. Liu C, Asundi V, Ch Wang Z, Wehrman T, X Zhou P, Goodrich R, 2000US-0552317. 2000US-0598042. 19-JUL-2000; 2000US-0620312. 03-AUG-2000; 2000US-0653450. 14-SEP-2000; 2000US-0662191. 19-OCT-2000; 2000US-0693036. 2000US-0488725 2000US-0727344. 26-DEC-2000; 2000WO-US34263 (first entry) 789 789 2001-442253/47. SEWVMESTV SEWVMESTV (HYSE-) HYSEQ INC N-PSDB; AAI58215 C.N.S disorders. WO200153312-A1 Homo sapiens. 25-APR-2000; 09-JUL-2000; 19-OCT-2000; 29-NOV-2000; 21-JAN-2000; 22-0CT-2001 26-JUL-2001 leukaemia. л, ^ч ΥT, 721 781 AAM3 9059; 781 721 Tang Wang Zhao Note: 'Idm RESULT 3 AAM39059 ID AAM3 δ q 8 g CC activity, regulation of haematopoiesis and is useful for treating myeloid CC or lymphoid cell disorders, platelet disorders such as thrombocytopenia and for regeneration of bone, cartilage, tendon, ligament and/or nerve tissue growth, and in tissue repair, healing of burns, incisions. CC disorders, for treating osteoporosis, osteoarthritis, bone degenerative disorders, or periodontal disease. hurthermore, (I) is also useful for cg ut protection or regeneration and treatment of lung or liver fibrosis, cc disorders injury in various tissues, various immune deficiencies and disorders infututing autoin and treatment of lung or liver fibrosis, creperfusion injury in various tissues, various immune deficiencies and disorders and arthritis, diabetes mellitus, myasthenia gravis, allergic reactions and conditions, such as asthma or circadian cycles of rhythms. CC distray fat, lipid, protein, carbohydrate, vitamins, minerals, provides analgesic effects or other pain reducing effects or theringic activity and can artige in a vaccine composition of distray fat, lipid, protein, carbohydrate, vitamins, minerals, provides analgesic effects or other pain reducing effects in munoglobulin like activity and can act as an antigen in a vaccine composition to raise an commune response. AN123395 represent novel human secreted protein ö 240 120 120 180 180 240 300 360 360 420 420 480 480 540 540 600 600 660 660 720 720 GUPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLV 300 60 60 IIVATLLVFIVILMVRYKVCNHEAPSKMAAVSNVYSQTNGAQPPPSSAPAGAPPQGPP GNFIIHISRQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGEDTL RGLVNLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWVNLHQLSL DHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLSFSFG PERAVLVSEVTTTSALVK#SVSKSAPRVKMYQLQVNCSDDEVLIYRMIPASNKAFVVNN 661 ASLDLKSQRKEELLDSRTPAGRGGGTSARGHSDREPLLGPPAARARSLLPLPLBCGKAKR METLLGGLLAFGMAFAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLG DHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLSFSFG 361 AANAAGEATAMVEVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGEPFKS LVSGTGYDLCVLAMWDDTATTLTATNIVGCAQFFTKADYPQCQSMHSQILGGTMILVIGG LVSGTGYDLCVLAMMDDTATTLTATVIVGCAQFFTKADYPQCQSMHSQ1LGGTM1LV1GG KVVVRNELLDFTASLARASDSSSSSLGSGEAAGLGRAPWRIPPSAPRPKPSLDRLMGAF 1 METLLGGLLAFGMAFAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLG GNFIIHISRQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGEDTL RGLVNLQHLIVNNNQLGCIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVNLHQLSL LEGQAATLKCKAIGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCI 301 LEGQAATLKCKAIGDPSPLIHWAPDDRLVGNSSRTAVYDNGTPDIFITTSODSGAFTCI AANAAGEATAMVEVS1VQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGEPPKS PPERAVLVSEVTTTSALVKWSVSKSAPRVKMYQLQYNCSDDEVLI YRMI PASNKAFVVNN IIVATLLVFIVILMVRYKVCNHEAPSKMAAAVSNVYSQTNGAQPPPPSSAPAGAPPQGPP KVVVRNELLDFTASLARASDSSSSSSLGSGEAAGLGRAPWR1PPSAPRPKPSLDRLMGAF ASLDLKSQRKEELLDSRTPAGRGAGTSARGHHSDREPLLGPPAARARSLLPLPLEGKAKR Gaps ö 789; Length 1; Indels 22; 6e-303; 08 0; Mismatches Score 4087; Pred. No. 6e amino acid sequences of the invention 99.88; 99.98; Query Match 99.8 Best Local Similarity 99.9 Matches 788; Conservative 789 AA; 421 541 481 Sequence ч 361 541 61 61 121 121 181 181 241 241 301 421 481 601 601 661 ą q q δ q q \mathcal{S} g δ ą δ q δ q ò g δ q ò q 6 δ 5 \hat{o}

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ι ί	enerificarion.	DE Human hh00149	protein SEQ ID NO:4.	
S X QS	equence	XX KW Human; ubiquitin-like pr vw 2-hvbrid screening; neur	tin-like protein; 149Y2H#151; hh00149; brain; ening: neuroorotective; signal transducer;	
- 25	ery Match 99.8%; Score 4087; DB 22; Length 789;		diagnosis.	
Mai	Gaps			
VQ 40	<pre>1 METLLGGLLAFGMAFAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLG 60 1 </pre>	PN WOZUUU31255-AL XX PD 02-JUN-2000. XX		
δ f	61 GNPIIHISROPFANNTGLYDLTLSRNTISHIOPFSFLDLESLRSLHLDSNRLPSLGEDTL 120 	PF 18-NOV-1999; XX PR 20-NOV-1998;	99WO-JP06448. 98JP-0331701.	
δγ		(CHUG-) CF	RES INS	
qq			Miyata S; 0066/34	
A d	SFSFG		which interacts with protein	
VO da		PT hhool49, used PT with the nerv XX Example 2. P	hhooly, useful in the diagnosis and treatment of diseases associated with the nervous system – with the nervous system – Totangalese.	
YQ da	<pre>301 LEGQAATLKCKAIGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCI 360 1 </pre>		The present invention describes a ubiquitin-like protein, designated the present invention describes a ubiquitin-like protein, designated 1972. Millin, milline interacts with protein has neuroprotective activity, and	,
vo da	<pre>361 AANAAGEATAMVEVSIVOLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGBPFKS 420</pre>		ransdicer. The 149Y2H#151 gene and encoded protein are a diagnosis and treatment of diseases associated with the am. The protein can interact with protein hh00149 expressed in the hrin. The present sequence represents the human	
V dd			tein. 785 AA:	
VO da		Query Match Best Local Similarity Matches 785; Conser	99.5%; Score 4075; DB 21; Length 785; larity 100.0%; Pred. No. 4.9e-302; Conservalive 0; Mismatches 0; Indels 0; Gaps 0;	
2 2 2		QY 5 LGG	LGGLLAFGWAFAVVDACPKYCVCQNLSESLGFLCPSKGLLFVPPDIDRRTVELRLGGNFI 64 	
2	KUVVRNELLDFTASLARASDSSSSSSLGGGEAAGLGRAPWR1 PSAPRPKPSL	QY 65 IHI Db 61 IHI	IHISRODFANWTGLVDLTLSRNTISHIQPESFLDLESLRSLHLDSNRLPSLGEDTLRGLV 124	
S S E	ASLDLKSORKEELLDSRTPAGR	QY 125 NLO Db 121 NLO	NLOHLIVNNNOLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWNLHQLSLDHNL 184 	
8 8 E		QY 185 LDH Db 181 LDH	LDHIAEGTFADLOKLARLDLTSNRLOKLPPDPIFARSQASALTATPFAPPLSFSFGGNPL 244 	
6 6 6	SEWVMESTV 789	QY 245 HCN Db 241 HCN	HCNCBLLMLRLERDDDLETCGSPGGLKGRYFWHVREEFVCEPPLITOHTHKLLVLEGO 304 	
RESULT	40	QY 305 AAT Db 301 AAT	AATLKCKAIGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAANA 364 	
AAB XX AC	12448 AAB12448 standard; Protein; 785 AA. AAB12448;	365 361	AGEATAMVEVSIVOLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGFPKSPFER 424 IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	
XUX	19-OCT-2000 (first entry)	4 LG 77 T	AVLVSEVTTTSALVKWSVSKSAPRVKMYQLQYNCSDDEVLIYRMIPASNKAFVYNNLVSG 484	
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	421 AVLVSEVTTTSALVKWSVSKSAPRVKMYQLQYNCSDDEVLLYRMIIASNKAFVVNNLVSG 480	Sd	Claim 1; Page 58-60; 102pp; English.
	TGYDLCVLAMMDDTATTLTATNIVGCAOFFTKADYPOCOSMHSOILGGTMILVIGG11VA	ខេខ	The present sequence represents a human secreted polypeptide. The secreted polypeptides and polynucleotides are useful for treating
	481 TGYDLCVLAMMDDTATTLTATNIVGCAQFFTKADYPQCQSMHSQILGGTMILVIGGIIVA 540	មួន	nervous and muscular diseases, for inhibiting tumour formation and metastasis, for treating gastrointestinal ulceration, for preventing
	545 TLLVFIVILMVRYKVCNHEAPSKMAAAVSNVYSOTNGAOPPPPSSAPAGAPPQGPPKVVV 604 111111111111111111111111111111111111	ម្ង	and treating diseases in spinal cord, thyroid gland, ovary, prostate, renal gland, small intestine, heart, traches, thymus, lymph node, muscular soutem and colon for tracting linese deficiency in cveric
	ייייייטאין איז	ទទ	fibrosis and panctactics, for treating undesirable clot formation much so much so instantial information
	00 RUBLUPT TARAARSDASSSSSUCSGEAAGLGRAPWALFYARTFYRFYRFYRFYRFYRFYND 100 	388	such as myocathata intarction, during anyophasty and att surgicat procedures that require decreased blood clot formation, for treating liver diseases, coagulation disorders and microbial diseases, for
	665 LKSQRKEELLDSRTPAGRCAGTSARGHHSDREPLLGPPARARSLLbLEGKARSHSF 724 1	8885	C treating immune disorders, for treating inflammation and transplant C rejection, for enhancing bone thickness and increasing bone density, C for reducing the loss of essential ferroxidaes, for suppressing C anontosis and for recularing vascular smooth cell proliferation. They
	DMGDFAAAAAGGVVPGGYSPPRKVSNIMTKRSLSVNGMLLPFEESDLVGARGTFGSSEWV	SO X C	máy also be used as váccines. Sequence 766 AA;
	Digde farming of Four Sterry Sintin Landle Vingellike EESUL Variate FOUR STUDY	Õă \$	core 1846; DB 22; Length 766; red. No. 5.3e-132; Wiemer 54, Conc. 11
	781 MESTV 785	ð	1 METLLGGLLAFGMAFAVVDACPKYCVCQNLSESLCTLCPSKGLLFVPPDIDRRTVELRLG 6
5	RESULT 5	ЧС	: :
50	505 AAG67505 standard; Protein; 766 AA.	<u>о</u>	61 GNFIIHISRQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGEDTL 120
r 4,	AAG67505;	qq	<pre>60 DNFVTNIKKDFANMTSLVDLTLSRNTISFITPHAFADLRNLRALHLNSNRLTKITNDMF 119</pre>
	26-NOV-2001 (first entry)	δ	121 RGLVNLQHLIVNNNQCGGIADEAFEDFLLTLEDLDLSVNNLHGLPWDSVRRWVNLHQLSL 180
۹.	Amino acid sequence of a human secreted polypeptide.	qu	II
דסד	Human; secreted polypeptide; nervous disease; muscular disease; tumour; gastrointestinal ulceration; spinal cord disease; trachea disease; rhvrrid aland disease; ovarv disease; vrostate disease; beart disease;	λο 4	<pre>181 DHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLSFSFG 240</pre>
	enal gland disease; small intestine disease; thymus disease; ymph node disease; muscular system disease; colon disease;	6 N	GNPLHCNCELLMLRRLERDDDLFTCGSPGGLKGRYFWHVREEEFVCEPLITQHTHKLLV 30
⊣ E E	ipase deficiency; cystic fibrosis; pancreatitis; clot formation; docardial infarction; angioplasty; liver disease; coagulation discrder; dorobial diseases : mmune discrover; infammation; consolant redoring;	рр	
≤ A >	recount disease; ammune disecter; antrammation; transprane rejection; one thickness; bone density; ferroxidase loss; apoptosis; ascular smooth cell proliferation; vaccine.	λ [,] έ	301 LEGQAATLKCKAIGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCI 360
н	Homo sapiens.		
3	WO200166690-A2.	<u>ک</u> ج	361 AAWAAGEALAWYEVELVULERIJSNEJSKIAFFASKEDULIGGSAISKGGGGGGGFFAS 420 1:1 1 : 1:: 1:1 1 : 1 1 1 : 1 1 1
н	13-SEP-2001.	6	PPERAVI.VSEVTTTSAI.VKWSVSKSA PPVKMYOLOVNCSDDEVI.I VPMI PASNKA FVVNN 48
0	05-MAR-2001; 2001MO-US07143.		Listing and the second se
0000	06-MAR-2000; 2000US-0187107. 13-MAR-2000; 2000US-0188916. 03-OCT-2000; 2000US-0238874. 03-OCT-2000; 2000US-0237846.	VO 4	<pre>1 UNSGREADECVLAMMDTATTLTATNIVGCAOFFTKADYPOCOSMHSOILGGTMILVIGG 54 1 </pre>
•••	(SMIK) SMITHKLINE BEECHAM CORP. (SMIK) SMITHKLINE BEECHAM PLC.	ov	IIVATLLVFIVILMVRYKVCNHEAPSKMAAVSNVYSQTNGAQPPPSSAPAGAPPQGPP :: : : :
4	Agarwal P, Murdoch PR, Rizvi SK, Smith RF, Xiang Z;	40 	536 IIVASVLVFIIILMIRYKVCNNNGQHKV-TKVSNVYSQTNGAQIQGCSVTLPQSVS 590
54	570768/64. H78197.	ଚ ବ ୍	<pre>601 KUVVRNELLDFTASLARASDSSSSSLGSGEAAGLGRAPWRIPPS645</pre>
4	າປາ ທ່າ	Q	646 -APRPKPSLDRLMGAPASLDLKSQRKEELLDSRTPAGRGAGTSARGHHSDREPLLG 700
3 70	muscular diseases, gastrointestinal uteration, coagulation and immune disorders, microbial diseases, inflammation and transplant rejection -	du	645 RKTGTKPSTEPQNEAVTNVESQNTNRNNSTALQLASRPPDSVTEGPTSKRAHIKPSKF1T 704

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	ישר אסטרעפמר מיטירייריז אוירי גיגיג גמרייעריריטירי איזיידי איירי איירי איירי איירי איירי איירי איירי איירי איי		44.5%; Score 1820.5; DB 23; Length 719; 52.1%; Pred. No. 4.3e-130;
	7	Wa	nes 371; Conservative 114; Mismatches 190; Indels 37; Gaps
60		٥٧	1 METLLGGLLAFGMAFAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLG 60
δ	761 GMLLPFEESD 770 	qa	1 BEKILFYLFLIGIA-VKAQICPKRCVCQILSPNLATLCAKKGLLFVPPNIDRRTVELRLA 59
qq	747 VMFIQSDCSD 756	Q	61 GNFIIHISROPFANMTGLVDLTLSRNTISHIOPFSFLDLESLRSLHLDSNRLPSLGEDTL 120
RESULT	LT 6	đ	60 DIEVTNIKRKDFANMTSLVDLTLSRNTISFITPHAFADLRNLRALHLNSNRLTKITNDMF 119
ABP43 ID	ABP43533 . ID ABP43533 standard; Protein; 719 AA.	ov	121 RGLVNLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWNLHQLSL 180
	ABP43533;	qu	120 SGLSNLHHLILNNNQLTLISSTÅFDD-VFALEELDLSYNNLETIPWDAVEKMVSLHTLSL 178
	08-AUG-2002 (first entry)	ò	4
~ m	Human secreted protein (SCEP) 57.	qa	179 DHNMIDNIPFGTFSHLHKMTKLDVTSNKLQKLPPDPLPQRAQVLATSGIISPSTFALSFG 238
***	Human; secreted protein; SECP; SECP expression; gene therapy; protein therapy: immune system disorders; AIDS; thymic hypoplasia;	o i	241 GNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLV 300 11111111111111111111111111111111111
333	anaemia; asthma; Crohn's disease; neurological disorder; epilepsy; Huntington's disease; dementia; Parkinson's disease; Down's syndrome; developmental disorder; cell proliferative disorder; cancer.	an ya	36
×α	Homo sapiens.	qu	3.5
×z	W0200226982-A2.	Q	361 AANAAGEATAMVEVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGFPKS 420
хe	04-APR-2002.	qa	359 ASNPAGEATOLVDLHIIKLPHLLNSTNHIHEPDPGSSDISTSTKSGSNTSSSNGDTK 415
×Ŀ	25-SEP-2001, 2001WO-US30042.	QY	421 PPERAVLVSEVTTTSALVKWSVSKSAPRVKMYOLQYNCSDDEVLLYRMIPASNKAFVVNN 480 : :: : ::: : :: :: :: : : : : :
< 22 P	29-SEP-2000; 2000US-236869P. 11-OCT-2000: 2000US-238812P.	qu	
К К К К К К	2-001	λά έ	481 LVSGTCYDLCVLAMMDTATTLIAINIGCAQFFIKADIYPUCOMHSQLUGGIUUGUUUGUU
щ×	20-OCT-2000; 200005-242218P.	3 8	
4 X	:	<u>ک</u> کر	541 I.VALLUKTY LUNKTY CONDER SWY WAY VIEW CONTROL CONT
ннне	u Y, Tribouley CM; apperstein SK, Lal P; liott VS, Arvizu C; voung J, Tran B, Pol	λδ	KUVVRNBLLDFTASLARASDSS SSSSLGSGEAAGLGRAPWRIPPS
чны	A, Gururajan R, Duggan BM;	4 6	591 KQAVGHEENAQCCKATSDNVIQSETCSSQDSSTTISALPPSWISSISVSUKUK 644 cas _addddyngatasiniksorkeeildbserpaggggg-TSARGH 691
XRR	WPL; 2002-394239/42. N-PSDB; ABN99416.	2 2 2	RKTGTKPSTEPONEAVTNVESQNTNRNNSTALQLASRPPDSVTEGPTSKRAH
XXTTT	New human secreted proteins, useful for diagnosing, treating or preventing immune system disorders (e.g. Crohn's disease), neurological disorders (e.g. Parkinson's disease), or cell proliferative disorders (e.g. cancers) -	RES . AAG ID	RESULT 7 AAG67512 ID AAG67512 standard, Protein; 771 AA.
·× o		XX AC	AAG67512;
XUL	The invention comprises the amino acid and coding sequences of human servered proteins (SRCP) The SECP DNA and amino acid sequences of the	X L X	(first entry)
ຸບຸບຸ	sectored process void in the var and an and associated with the sectored or alevated events associated with accorded or alevated evented of the SECP The SECP The SECP The sectored or alevated evented or sector of SECP The SECP The SECP The sectored of th	DE	
າບຸບ	decreased of errorated expression of open and open and for the specificating (i.e. gene specificating useful for treating/preventing (i.e. gene theranv and protein theranv, immune system disorders (e.g. AIDS, thymic	KW	omu :
ខ្លួខ្ល	hypoplasia, anemia, asthma or Crohn's disease); neurological disorders (e.g. epilepsy, Huntington's disease, dementia or Parkinson's disease);	KW	thyroid gland disease; ovary disease; prostate disease; heart disease; renal gland disease; small intestine disease; thymus disease;
ខ្លួខ	developmental disorders (e.g. Down's syndrome); and cell proliferative disorders (e.g. cancer). The proteins ABP43477 - ABP43543 represent the	KW KW	Iymph node disease; muscular system uisease; colou disease; lipase deficiency; cystic fibrosis; pancreatitis; clot formation; uisease; coadulation disorder;
ខ្លួង	human secreted proteins (SECP) of the invention.	KW	myocatulal intervetion, any correct, inflammation; construction; microbial disease; immune disorder; inflammation; transplant rejection;
õ	Sequence 719 AA;	KW KW	bone thickness; bone density; rerroxidase idea approved a vascular smooth cell proliferation; vaccine.

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	qu	330 VVHWVAPDGRLLGNSSRTRVRGDGTLDVTITTLRDSGTFTCIASNAAGEATAPVEVCVVP
sapiens.		
WO200166690-A2.	<u>}</u>	
13-SEP-2001.	q	
05-MAR-2001; 2001WO-US07143.	ð i	439 KWSVSKSAPRVKMYQLQYNCSDBEVLIYEMIPASNKAFVVNNLVSGTGYDLCVLAMDDT : : :::::::::::::::::::::::::::::::::
06-MAR-2000; 2000US-0187107. 13-MAR-2000; 2000US-0188916. 03-OCT-2000; 2000US-0236874.	8 	
000; 2000US-0237846. SMITHKLINE BEECHAM CORP.	a yo	501 ATALPATRVVGCVQFTTAGDPAPCRPLRAHFLGGTMIIAIGGVIVASVLVFIVLLMIRYK 559 yCNHEAPSKWAAVSNVYSQTNGAQPPPSSAPAGAPPQGPP
BEECHAM PLC.	qa	: : : : :
AGALWAL F, MULGOCN FK, KIZVI SK, SMILN KF, AIANG Z; WPI; 2001-570768/64. N-SCDR. ΔΔΗ78704	Yo 4	601 KVVVRNELLDFTASLARASDSSSSSLGSGEAAGLGRAPWRIPPSAPRPKPSLDRLMGAF : ::: : 519 AVJAVD
ecreted polypeptide useful for treating nervo s, gastrointestinal ulceration, coagulation a	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	A-SLDLKSQRKEELLDSRTPAGRGAGTSARGHHSDREPLLGPPAAR
microbial diseases, inflammation and transplant rejection -	40 0	
Claim 1; Fage 69-72; 102pp; English.	ð í	GKAKKSHSFDMGDFAAAAAGGVVPGGYSPPRKVSNIWTKSLSVNGML
sequence represents a human secreted polypeptide. The lypeptides and polynucleotides are useful for treating	а а	PRPQQRYSFD-GDYGALFQSHSYPR
wuscular diseases, for inhibiting tumour formation and for treating gastrointestinal ulceration, for preventing diseases in coint and thuroid distant accounts	<i>δ</i>	776 GTPGSSEWVMESTV 789
s dragged in aprilat oct, chirota grand, overly prostate, , small intestine, heart, traches, thymus, lymph node, stem and colon. For traching linase deficiency in cystic		
fibrosis and pancreatitis, for treating undestructed of formation such as myocardial infarction, during angioplasty and all surgical procedures that require decreased blood clot formation, for treating	AAE	RESULT 8 AAE23980 ID AAE23980 standard; Protein; 635 AA.
ses, coagulation disorders and microbial diseases, for wune disorders, for treating inflammation and transplant	XX AC	
rejection, for enhancing bone thickness and increasing bone density, for reducing the loss of essential ferroxidases, for suppressing apoptosis, and for regulating vascular smooth cell proliferation. They may also be	X T U X	
USED AS VACCAIRS.	XX	Human Lrzzu secreted protein. Buman, nonverad nystain, athorycolasseir, Alahaimar's Aissand, 103
equence: //1 AA; Y Match 41.6%; Score 1703.5; DB 22; Length 771; Foral Similarity 46 5%: Dred Mc 40-131.	M M M M	<pre>Human; secreted protein; atneroscierosis; Aizneiner's disease; LP2U; diabetic retinopathy; severe combined immunodeficiency; pancreatitis; rheumatoid arthritis; colorectal adenoma; haemolytic anaemia; cancer; romorfinion infuru; retroiconforcoir, wound healing; transmonic animal</pre>
vative 11(KW	gene therapy; neoplasm; transgenic; psoriasis; ischaemia; carcino chromosome 11011
CPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNFIHHISRQDFANMTGLVD 80 [XX	Homo sapiens.
NNOLGGIA	ET F	Key Location/Qualifiers Peotide 116
	FT FT	
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FVQLHKLV	N XX	W0200226801-A2.
RLDLTSNRLQKLPPDPIFARSQASALTATPFAP-PLSFSFGGNPLHCNCELLMLRRLERD 259 III:IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	N X 4	04-AFK-2002. 14-SEP-2001; 2001WO-US26026.
	XX R	28-SEP-2000; 2000US-236088P.
UDLEICGSPOGLAGATYWHYKEEEFYCEPPLIT-OFTHKLUVLEGOATLAKKAIGDPSP 318 :	XX PA YX	(BLIL) LILLY & CO BLI.
37	IdXX	Su EW, Wang H;
	DR	WPI; 2002-471259/50.

Db 578 578 580 580	Db 581QRSCSLD 587 0.0 726 MGDFAAAAAGGGGVUPGGGVSPDFKVSNIWTKFSI.SUNGMI.I.FFFESDI.VGARGFFGSSEWVN 785	58 LGDAGCYGYARRLGGAMARRSHS/HGGLLGAGCKGGGABRLE	Qy 786 ESTV 789	Db 632 ESVV 635	SULT 9 G13536	ID ABG13536 standard; protein; 322 AA. XX AC ARG13536:	XX DT 18-FBB-2002 (first entry) XX	Novel human diagnostic protein #13527.	<pre>KW Human; chromosome mapping; gene mapping; gene therapy; forens.c; KW food supplement; medical imaging; diagnostic; genetic disorder. XX</pre>	SO XX	PN W0200175057-A2. XX PD 11-OCT-2001.	 		XX DR WPI; 2001-639362/73. DR N-PSDB; AAS77723.		XX PS Claim 20; SE XX		 			CC amino acid sequences. ABG00010-ABG30377
AAD38695 oteins and polynucleotides of secreted proteins useful for	treating various urbeases e.g. incumatoru artinitits, cancer, psorrasis, diabetic retinopathy, arteriosclerosis, ischemia or reperfusion injury	Claim 8; Page 127-129; 145pp; English.	nucle:	the invention are used for treating diseases wovel secreted proteins of Alzheimerion are used for treating diseases such as atherosclerosis, arteriocolar's disease, diabetic retinopathy, psoriasis, pancreatitis, arteriocolaris disease, eventific coloreral adapones	anaer	also used for wound healing. Polynucleorides of the invention can sed to generate transgenic animals or knock out animals, which in are useful in the development and screening of therapolitically	for use activity. They are also used in generation of the second		635 AA; 40.7%: Score 1667.5: DB 23: Lenath 635:	Indels 159	DIDRRTVELRLGGNFIIHI	SKOPAPANJGLYDLITSKNITSKNITSKNITGERSLESLESLEDDSNKLPSGEUTIKGLYNLO 121 GPPDFRNMTGLVDLTLSRNAITRIGARAFGDLESLRSLHLDGNRLVELGTGSLRGPVNLQ 123	128 HLI VNNNQLGGIADEAFEDFLJTLEDLDLSÝNNLHGLPWDSVRRNNLHQLSLDHNLLDH 187 181 ::		LPPGGFRQLGQLSRLDLTSNRLATLAPDPLFSRGRDAEASPAPLVLSFSGNPLHCN 239 CELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLVLEGQAT 307 	LKCKAIGDPSPLIHWVAPDDRLVGNSSTAVYDNGTLDIFITSQDSGAFTCIAANAAGE 367 - - - - - - - -	TWHWUGPDDRLVGNSSRARAFPNG LPHLSNSTSRTAPPKSRLSD1TGS	VSEVITISALVKWSVSKSAFYVKMYOLOZINCSDDEVLITKMLFASNKAFVVNLVSGIGY 487 :	DLCVLAMWDDTA - TTLTATNIVGCAQFFTKADYPQCOSMHSQILGGTMILVIGGIIVATL 546 : : DLCLLALSPAAGPSDLTATRLLGCAHFSTLPASPLCHALQAHVLGGTLTVAVGGVLVAAL 530	KVVVR	LVFIVALLVRGRGAGNGRLPLKLSHVQSQTNGGPSPTPKAHPPRSPP 577

Page 8

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(A)		
<pre>Jary Match set Local Similarity atches 322; Conservati 468 MIPASNKAFVVW 1 </pre>		
	<pre>4%: Score 1656; DB 22; Length 322; .0%: Pred. No. 5e-118; 0; Mismatches 0; Indels 0; Gaps</pre>	0;
	MI PASNKAFVVNNLVSGTGYDLCVLAMMDDTATTLFATNI VGCAOFFTKADYPQCQSMH5 527	4
		r
	01LGGTMILLULULULULULULULULULULULULULULULULULUL	× 0
	PKVVVRNELLDFTASLARASDSSSSSLGSGEAAGLGRAPWRIPPSAP 647	4
	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	0
	RPKPSLDBLMGaFASLDLKSORKBELLDSRTPAGRGAGTSARGHHSDREPLLGPPAARAR 707	6
181 RPKPSLDRLMGA	FASLDLKSQRKEELLDSRTPAGRGAGTSARGHHSDREPLLGPPAARAR 24	0.
708 SLLPLPLEGKAK 241 SLLPLPLEGKAK	SLLPLPLECKAKRSHSFDMCDFAAAAGGVVPGGYSPPRKVSNIWTKRSLSVNGMLLPFE 767	r 0
768 ESDLVGARGTFG		
301 ESDLVGARGTFGSSEWVMESTV	 SSEWVMESTV 322	
ULT 10 32870 AAU32870 standard; Protein;	otein; 636 AA.	
AAU32870;		
EC-2001 (first	entry)	
l human secreted	protein #3361.	
XX Human; vaccination; ge KW Btem cell proliferation KW immune suppression; in	man; vaccination; gene therapy; nutritional supplement; em cell proliferation; haematopoissis; nerve tissue regeneration; mune suppression; immune stimulation; anti-inflammatory; leukaemia.	
Homo sapiens.		
WO200179449-A2.		
25-OCT-2001.		
16-APR-2001; 2001WO-US0865	S08656.	
PR-2000; 2000US AN-2001; 2001US	- 0552929. 5-0770160.	
(HYSE-) HYSEQ INC.	•	
YT, Liu C,	Drmanac RT;	
WPI; 2001-611725/70.		
eic acids encodin ination, testing	ig a range of human polypeptides, useful in genetic and therapy -	
Claim 20; Page 682; 765pp; English	65pp; English.	
The invention relates polypeptides and antil determining the preser	The invention relates to novel human secreted polypeptides. The polypeptides and antibodies to the polypeptides are useful for determining the presence of or predisposition to a disease associated	

9 372 320 VGDFFFRVRWVSPQGRLLGNSSRARAFPNGTLELLVTEPGDGGIFTCIAANAAGEATAAV 379 489
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 CULAVYEDSATGLTATRPVGCARFSTEPSLRPCGAPHAPFLGCTMIIALGCVIVASVLVF
 555

 82 75

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 IGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAANAAGEATAMV 16 AVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNFIIHISRQDFANM LQKLARLDLTSNRLQKLPPDP1FARSQASALTATPFAPPLS - - - FSFGGNPLHCNCELLW EVTTTSALVKWSVSKSAPRVKMYQLQYNCSDDEVLI YRMI PASNKAFVVNNLVSGTGYDL Gaps DB 22; Length 636; 15; 604 550 IVILMVRYKVCNHEAP - SKMAAAVSNVYSQTNGAQPPPPSSAPAGAPP 596 556 IFVLLMRYKVHGGQPPGKAKIPAPVSSVCSQTNGALGPTPTPAPPEP Query Match 38.8%; Score 1586.5; DB 22; Length Best Local Similarity 53.5%; Pred. No. 2.6e-112; Matches 315; Conservative 88; Mismatches 171; Indels •• AAB84469 standard; Protein; 628 AA 636 AA; Sequence AAB84469; 23 76 83 136 143 260 313 496 196 203 253 373 430 436 490 RESULT 11 AAB84469 ID AAB84 XX AC AAB84 AC AAB84 XX 05-SE XX DT 05-SE XX XX DE Aminc XX XX IDE Aminc XX 6 qq δ q δ g \mathcal{S} qq \mathcal{S} qq \mathcal{S} đ 8 q \mathcal{S} q δ đ δ qq

05-SEP-2001 (first entry)

Amino acid sequence of an interferon omega-1 like protein NOV2.

Interferon omega-1 like protein; Nov2; membrane bound protein; secreted protein;. spermatogenesis; male infertility; neoplasia;

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	Db 380 ELIYGEPPEPEDLANDISCUERNOOLOYNUSEDEVLIYRMIPASNKAPVNNLVSGTGYDLC 490 Qy 431 VTTTSALVKWSVSKSAPRVKMOLOYNCSDDEVLIYRMIPASNKAPVNNLVSGTGYDLC 490 Db 436 HGATAALVQMPDRPIPGIRMQIQYNSSADDILUYRMIPAESRSFLLTDLASGRTYDLC 495 Db 436 HGATAALVQMPDRPIPGIRMQIQYNSSADDILUYRMIPAESRSFLLTDLASGRTYDLC 495 OY 491 VLAMMDTATTLTATNIVGCAQFFRADYPQCOSMHSQILGGTMILVIGGIIVATLLVFI 550 Db 496 VLAVYEDSATGLTATRPVGCARFSTEPALRPCGAPHAPFLGGTMIIALGGVILVASVLVFI 555	551 556 556 556 556 667523 AAG67523 AAG67523	<pre>Dr 26-NOV-2001 (first entry) Dr 26-NOV-2001 (first entry) Dr Amino acid sequence of a human secreted polypeptide. X Human; secreted polypeptide; nervous disease; humour; W Human; secreted polypeptide; nervous disease; trachea disease; W thyroid gland disease; ovary disease; prostate disease; heart disease; W tenal gland disease; ovary disease; prostate disease; heart disease; W lymph node disease; numal1 intestine disease; colon disease; W lipase deficiency; cystic fibrosis; pancreatitis; clot formation; W mycoardial infasction; angiophasty; liver disease; coaqulation disease; W wocardial disease; immune disorder; inflammation; transplant rejection; W worscular smooth cell proliferation; vaccine. N W 0200166690-A2. N W 0200166690-A2. N M0200166690-A2. N M020016690-A2. N M02001690-A2. N M0200167016700000000000000000000000000000</pre>	<pre>05 -MAR-2000; 13 -MAR-2000; 03 -OCT-2000; 03 -OCT-2000; (SMIK) SMITH (SMIK) SMITH Agarwal P, M WPI; 2001-570 N-PSDB; AAH78 Novel isolate Nuscular dise disorders, mi Claim 1; Page Claim 1; Page</pre>
<pre>KW blood circulation; immunological disorder; autoimmune disease; KW inflammatory disease; cardiovascular disease; metabolic disease; KW cancer; viral intection; acute lymphoblasic leukemia; glioma; KW neurological disease; neurodegenerative disorder; Alzheimer's disease; KW immune disorder; hematopoietic disorder; neurodegenerative disorder; KW immune disorder; hematopoietic disorder.</pre>		XX (CURA-) CURAGEN CORP. PI Prayaga SK, Shimkets RA; XX WPI; 2001-381691/40. DR N-PSDB; AAH25568. XX Novel polypeptides designated as NOV polypeptides, useful in detection, PT prevention and treatment of a broad range of pathological states - XX Claim 1: Page 16; 9200; English.	The present sequence represents an interferon omega-1 like protein, cc designated NOV2. The protein is a membrane bound and secreted protein. designated NOV2. The protein is a membrane bound and secreted protein. NOV polypeptides and polynucleotides are useful for treating a NOV-associated disorder, and in the manufacture of a medicament for treating a syndrome associated with a human disease such a medicament for treating a syndrome associated with a human disease such a medicament for treating a syndrome associated with a human disease such a solv-associated disorder. They are also useful for treating disorders cc or syndromes including those involved in development, differentiation and activation of thymic immune cells, pathologies related to spermatogenesis and male infertility, diagnosis of several human cc moplasis, in disease or pathologies of cells in blood circulation such as red blood cells and platelets, various immunological disorders and/or pathologies, autoimmune and inflammatory diseases. and/or pathologies, autoimmune and inflammatory diseases. The attactions, in gliomas, neurological diseases, neurodegenerative disorders, NOV polypeptides and polynucleorides are also useful for treating neurodegenerative disorders, immune sits and hematopoietic disorders. Sequence 52 AA; Sequence 52 AA;	Хаселичания

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The invention provides an isolated nucleic acid encoding a polypeptide of the leucine rich repeat (LRR) family, designated 33395. The 33395 of the leucine rich repeat (LRR) family, designated 33395. The 33395 3395 polynucleotides and polypeptide can be used to prevent or treat disorders associated with 3395 expression, for example those involving aberrant cellular adhesion, proliferation or differentiation. Specific examples include meloblascoma, juvenile AIDS, diabetes mellitus, theumatoid arthritis, systemic lupus erythematosis, multiple sclerosis, chron's disease, ulcerative collitis, asthma, anemia, and chronic active hepatitis. The present sequence represents the human 33395 polypeptide. LRR; leucine rich repeat; 33395; cytostatic; anti-HIV; antidiabetic; antiarthritic; neuroprotective; dermatological; immunosuppresive; antiinflammatory; antiasthmatic; antiulcer; antianaemic; hepatotropic. New polypeptide for preventing or treating disorders associated with cellular adhesion, proliferation or differentiation, comprises polypeptide 33395, a member of the leucine rich repeat protein family 628; Length extracellular domain" "predicted transmembrane domain" note= "predicted cytoplasmic domain" III domain" DB 22; "C-terminal LRR domain" domain" 38.3%; Score 1566; "fibronectin type 17..58 /note= "N-terminal LRR location/Qualifiers "LRR domain" "LRR domain" "LRR domain" "LRR domain" "LRR domain" "LRR domain" "predicted Claim 9; Fig 1; 133pp; English (MILL-) MILLENNIUM PHARM INC 23-MAR-2001; 2001WO-US09470 24-MAR-2000; 2000US-191863P N-PSDB; AAI66985, AAI66986. /note= "p 560..628 .155 ..559 ..131 57..180 81..204 249..294 ..534 84..107 /note= note= note= note= note= note= note= note= note= 50..83 note= note= 80 560 2001-626254/72 AA 628 WO200172827-A2 Glucksmann MA; sapiens 04-0CT-2001 Sequence Query Match Domain Homo : IGW Key Construction of the second polynow are useful for treating nervous and muscular diseases, for inhibiting tumour formation and metastasis, for treating gastrointestinal ulceration, for preventing and treating diseases in spinal ord, thyroid gland, ovary, prostate, renal gland, small intestine, heart, trachea, thyroid gland, ovary, prostate, muscular system and colon, for treating undesirable clot formation is and provendial intertion, during angioplasty and all surgical procedures that require decreased blood clot formation procedures that require decreased blood clot formation inver diseases, coagulation disorders and microbial diseases, for treating immune disorders, for treating inflammation and transplant rejection, for enhancing bone thickness and microbial diseases, for for reducing the loss of essential ferroxidases, for suppressing corporesis, and for regulating vascular smooth cell proliferation. They ر. ص 252 435 495 135 202 259 319 430 490 550 555 LGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVNLHQLSLDHNLLDHIAEGTFAD 195 LRRLERDDDLETCGSPGGLKGRYFWHVREBEFVCEPPLITQHTHKLLVLEGQAATLKCKA 312 IGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAANAAGEATAMV 372 75 82 TGLVDLTLSRNT1SH1QPFSFLDLESLRSLHLDSNRLPSLGEDTLRGLVNLQHL1VNNNQ 380 ELTVGPPPPPQLANSTSCDPPRDGDPDALTPPSAASASAKVADTG----PPTDRGVQVTE LOKLARLDLTSNRLOKLPPDPIFARSQASALTATPFAPPLS - - - FSFGGNPLHCNCELLW 496 VLAVYEDSATGLTATRPVGCARFSTEPALRPCGAPHAPFLGGTMIIALGGVIVASVLVFI 16 AVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNFIIHISRQDFANM EVSI - - VQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGFPPKSPPERAVLVSE VTTTSALVKWSVSKSAPRVKMYQLQYNCSDDEVLIYRMIPASNKAFVVNNLVSGTGYDLC VLAMWDDTATTLTATNIVGCAQFFTKADYPQCQSMHSQ1LGGTM1LV1GG1IVATLLVFI Gaps The Human leucine-rich repeat (LRR) family member, 33395 polypeptide. 14; polypeptide. VILMVRYKVCNHEAP -- SKMAAAVSNVYSQTNGAQPPPSSAPAGAPP 596 556 FVLLMRYKVHGGQPPGKAKIPAPVSSVCSQTNGALGPTPTPAPPAPEP 603 Length 628; Indels 38.4%; Score 1573; DB 22; 53.1%; Pred. No. 2.7e-111; ive 88; Mismatches 174; sequence represents a human secreted AA 628 apoptosis, and for regulating may also be used as vaccines. AAG65805 standard; Protein; (first entry) Query Match 38.4 Best Local Similarity 53.1 Matches 312; Conservative AA; 628 30-JAN-2002 present 83 436 Sequence 53 76 136 143 196 203 253 260 313 373 431 491 551 AAG65805 RESULT 13 The AAG65805 \$ 8 g 6 q 8 g 8 đ 8 q 8 å \mathbf{S} q ò g 5 g δ q

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<pre>PR 25-JAN-2001, 2001US-264395P, PR 02-FEB-2001, 2001US-266421P, PR 09-FEB-2001, 2001US-266421P, PR 09-FEB-2001, 2001US-267623P, PR 03-APR-2001, 2001US-274399P, PR 03-APR-2001, 2001US-274399P, PR 04-APR-2001, 2001US-280982P, PR 04-APR-2001, 2001US-28129P, PR 04-APR-2001, 2001US-282199P, PR 04-APR-2001, 2001US-282199P, PR 04-APR-2001, 2001US-282199P, PR 04-APR-2001, 2001US-28199P, PR 04-APR-2001, 2001US-28139P, PR 04-APR-2001, 2001US-28139P, PR 04-AUN-2001, 2001US-0583P, PR 20-JUN-2001, 2001WO-US1962, PR 29-JUN-2001, 2001WO-US1965, PR 29-JUN-2001, 2001WO-US1965, PR 09-JUL-2001, 2001WO-US1955,</pre>		CC invention also comprises a meriod for producting the protection invention by recombinant means and antibodies specific for the protection of the invention. The antibody may be used for detecting the PRO cC proteins of the invention and may be used for detecting the PRO cC protectines of the invention and may be used for detecting the PRO cC protectines of the invention and may be used for detecting the PRO cC protectines of the invention and may be used for detecting the PRO cC polynucleotides may be used as hybridiastion probes for a CDNA library cC construct hybridistion probes for mapping the gene which encodes that construct hybridistion probes for mapping the gene which encodes that construct hybridistion probes for mapping the gene which encodes that cC reasars to identify other proteins or molecules involved in binding cC turn are useful in the development and screening of therapeutically turn are useful in the development and screening of therapeutically cC useful reagents, for chromosome identification, and tissue typing. The PRO polypeptides are useful in gene therapy, and as molecular weight markers for protein electrophoresis purposes. The sequences may cC also be used to detect overexpression on PRO polypeptides in cancerous functors and for screening for differentially expressed genes using microarray technology. The present sequence represents a human PRO for protein of the invention.	Ааса Ааса Ааса
Best Local Similarity 52.9%; Pred. No. 9.2e-111;Matches 311; Conservative 88; Mismatches 175; Indels 14; Gaps 5;QY16 AVUDACPKYCVCONLSESLGTLCPSKGLLPVPPDIDRRTVELRLGGNFIHISROPFANM 75Qy16 AVUDACPKYCVCONLSESLGTLCPSKGLLPVPPDIDRRTVELRLGDNFIKLADNFIASVRRNDLANM 82Db23 ATPSPCPRRCRCOTOSLPLSVLCPCAGLLFVPFSLDRRABELRLADNFIASVRRNDLANM 82Qy76 TGLVDLTLSRNTISHIOPFSFLDLESLRSLHLDSNRLPSLDRPRLADNFIASVRRNDLANM 82Qy76 TGLVDLTLSRNTISHIOPFSFLDLESLRSLHLDSNRLPSLGEDTLRGLVNLQHLIVNNNO 135Qy76 TGLUDLTLSRNTISHIOPFSFLDLESLRSLHLDSNRLPSLGEGURGLNNLPHLILSNNO 142Db83 TGLLHLSLSRNTIRHVAAGRADLRALHLDGNRLFSLGEGOLGUNLUNLLDHIAGTRAD 142Qy136 LGGIADEBFEFLITLEBDLDSYNNLHGLPWDSVRRNNLHDLSLDHNLLDHIAGTRAD 195Qy136 LGGIADEBFEFLITLEDDLSYNNLHGLPWBSVRRNNLHDLSLDHNLLDHIAGTRAD 195Db143 LAAIAAGALDDCAFTLEDDLDLSYNNLHGLPWBALGRLGNNTTGLDHNLLDHIAGTFAD 195	QY 196 LQKLARLDUTSNRLOKLPPDPIFARSQASALTATFFAPPLS FSFGGNPLHCNCELLW 252 Db 203 LHKLARLDWTSNRLTTIPPDPLFSR LPLLARPRGSPASALVLAFGGNPLHCNCELUW 259 QY 253 LRRLERDDDLETCGSPGGLKGRYFWHVREBEFVCEPPLITOHTHKLLULEGQAATLKCKA 312 QY 253 LRRLAREDDLEACGSPGGLKGRYFWHVREBEFVCEPPLITOHTHKLLULEGQAATLKCKA 312 QY 250 LRRLAREDDLEACGSPALGGRYFWAVGEBEFVCEPPLITOHTHKLLULEGQAATLKCKA 313 QY 313 IGDFSPLIFWVAPDDRLUGGRYFWAVGEBEFVCEPPVVTHRSPPLAVPAGRPAALRCKA 319 QY 313 IGDFSPLIHWVAPDDRLUGGRYFWAVGEBEFVCEPPVVTHRSPPLAVPAGRPAALRCKA 319 DD 31 IGDFSPLIHWVAPDGRLGGGRSKRARPFOGGGGFFFKAVLYSP 310 DD 373 IGDFSPLIHWVAPDGSSRLANPYOLOTYRSGGGGG	<pre>436 HGATAALVQMPDQRPIPGIRMYQIQYNSSADDILVYRMIPAESRSFLLTDLASGRTYDLC 436 HGATAALVQMPDQRPIPGIRMYQIQYNSSADDILVYRMIPAESRSFLLTDLASGRTYDLC 491 VLAWMDDTATTLTATNIVGCAQFFTKADYPQCQSMHSQILGGTMILVFG 111::::111111111111111111111111111111</pre>	<pre>X Human Pro peptide #51. XX Human; PRO; secreted protein; transmembrane protein; genetic disorder; tumour; cancer. XX Homo sapiens. XX MO200224888-A2. XX WO200224888-A2. XX 28-MAR-2002. XX 29-AUG-2001; 2001W0-US27099. XX 29-AUG-2001; 2001W0-US27099. XX 21-SEP-2000; 2000US-236147P. PF 01-SEP-2000; 2000US-236147P. PF 01-SEP-2000; 2000US-236147P. PF 01-SEP-2000; 2000US-236147P. PF 01-SEP-2000; 2000US-236147P. PF 16-JAN-2001; 2001US-261939P. PF 16-JAN-2001; 2001US-261939P. PR 16-JAN-2001; 2001US-261938P. PF 16-JAN-2001; 2001US-261538P. PF 16-JAN-2001; 2001US-261538P.</pre>

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ò		LRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLVLBGQAATLKCKA 312
gD	259 I	JRRLAREDDLEACASPPALGGRYFWAVGEEEFVCEPPVVTHRSPPLAVPAGRPAALRCRA 318
S d	313 I 1 515	P 1
3 8	n .	5
5 8	379 E	EV51 VULPHLENNISKITAFYKSKLESLITGSSKISKGGGGGGGGGFFFKSPERKAVLSE 430 [::: ELTVGFPFPPQLANGTSCDPFRDGDPALTPRSASASASVADTGPPTDRGVOTE 434
δ	431 V	JTTTSALVKWSVSKSAPRVKMYQLQYNCSDDEVLJYRMIPASNKAFVVNNLVSGTGYDLC 490
qq	. 435 F	: :
δ	491 V	VLAMWDDTATTLTATNIVGCAQFFTKADYPQCQSMHSQILGGTMILVIGGIIVATLLVFI 550
ą	495 1	:::!:
δ	551 V	VILMVRYKVCNHEAPSKMAAÄVSNVYSQTNGAQPPPSSAPAGAPP 596
ą	555 F	VLLMŘÝKVHGGOPPGKAKIPAPVSSVCSOTNGALGPTPTPAPPAPEP 602
RES	JLT 15 17484	
e x	E17484	standard; Protein; 551 AA.
AC AC	AAE17484;	·
253	22-APR-2002	02 (first entry)
N E E	Human leucine	sine-rich repeat-8 (ZLRR8) protein #2.
KW GL GL HC KW GL KW KW KW	Human; leu endometrie cell growt mammary gl	Human; leucine-rich repeat-8; ZLRR8; cytostatic; gene therapy; leukaemia; endometrial adenocarcinoma; renal cell; colon; prostrate; retinoblastoma; cell growth disorder; glioblastoma; neuroblastoma; kidney tumour; lung; mammary gland; germ cell; bladder; oesophagus; pancreas; animal feed;
XXS	Homo sapie	
XXE	Ϋ́	Location/Qualifiers
FT	ptid	118 /label= Signal_peptide
L L L	Protein	19.551 /label= Mature_Zllr8_protein
XNX	12002026	04-A2.
X G I	10-JAN-2002	2
Х H X	. 02-JUL-2001;	01; 2001WO-US20999.
X K K	30-JUN-2000;	00, 2000US-215446P.
X 4 3	OMY) ZYMOGENETICS INC.
XIX	Thayer EC,	Sheppard PO, Presnell SR;
888 888	WPI; 2002- N-PSDB; AA	WPI; 2002-154725/20. N-PSDB; AAD28124.
ΧŢ	New leucir	ne-rich repeat proteins and polynucleotides, useful for
답답	diagnosing retinoblas kidney and	diagnosing and treating disorders related to abnormal cell growth e.g. retinoblastoma, renal cell, endometrial adenocarcinoma, leukemia, kidney and lung tumors -
XX SS	Claim 10;	Page 67-69; 82pp; English.
288 288	The invent repeat pro	The invention relates to an isolated polypeptide comprising leucine-rich reneat proteins 21rr7 21rr8 21rr9 and enliced variants of 71rr8 21rr9
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21rr7, Z1rr8, and Z1rr9 proteins are useful in directing the secretion of proteins of interest from a host cell and to monitor the secretion of proteins in general from cells and tissues: The Z1rr DNA and proteins are useful in diagnosing and treating discues: related to abnormal cell growth, including retinoblastoma, renal cell adenocarcinoma, endometrial c denocarcinoma, glioblastoma, neuroblastoma, B-cell lymphotic leukaemia, kidney tumours, germ cell tumours, lung large cell carcinoma, mammary, colon adenocarcinoma, glioblastoma, renstitional cell tumours, rhabdomyoszrcoma, lung tumour, bladder tumour, oesophagus, pancreas adonostic adenocarcinoma electing receptors, for analysis of cell phenotype, cond prostate adenocarcinoma recolypebtide, for durug design, to screen for cell metabolism effecting receptors, for analysis of cell phenotype, also useful in gene therapy. The present sequence is human Z1rr DNA is also useful in gene therapy. The present sequence is human Z1rrB protein. . o 410 127

 CPDPFRNMTGLVDLTLSRNAITRIGARAFGDLESLRSLHLDGNRLVELGTGSLRGPVNLQ
 123

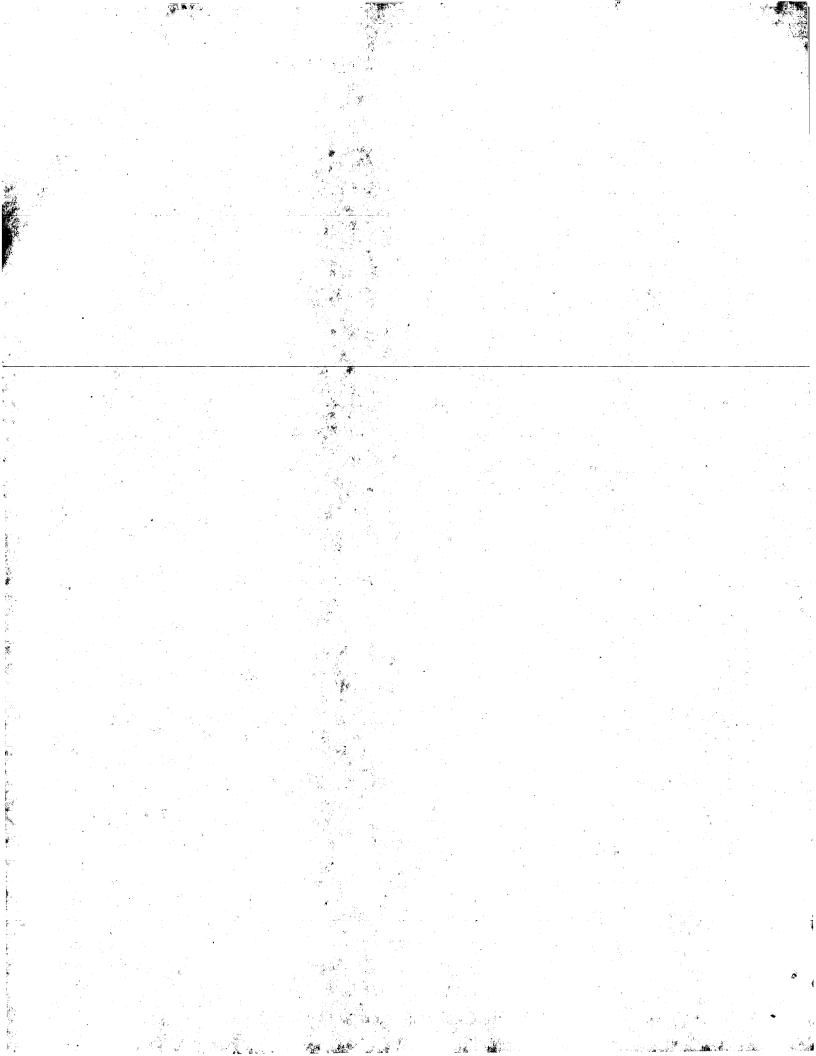
 187 247 239 307 299 LKCKAIGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAANAAGE 367 359 ATAMVEVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGEPPKSPPERAVL 427 487 470 546 |||:||: : :|||| ::||| | | | | : : :||||: : :||||: : :|||| |] DLCLLALSPAAGPSDLTATRLLGCAHFSTLPASPLCHALQAHVLGGTLTVAVGGVLVAAL 530 67 63 HLI VNNNQLGGI ADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVNLHQLSLDHNLLDH LPPGAFAQLGQLSRLDLTSNRLATLAPDPLFSRGRDA - - EASP - - APLVLSFSGNPLHCN LLÁSGAA - - - - ACPLPCVCONLSESLSTLCAHRGLLFVPPNVDŘRTVELRLADNFIOAL SRQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGEDTLRGLVNLQ CELLMLRRLARPDDLETCASPPGLAGRYFWAVPEGEFSCEPPLIARHTORLWVLEGORAT ||| ||: :: ||| ||:: || || ||| ||:||: ||: ||: || ATARVELRVLALPHGGNSSAEGGRPGP--SDIAASARTAAEGEGTLESEP------AVQ

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 VTEVTATSGLVSWGPGRPADPVWMFQIQYNSSEDETLIYRIVPASSHFLLAHLVPGADY

 LLAFGMAFAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNFIIHI I A E G T F A D L Q K L A R L D L T S N R L Q K L P P D P I F A R S Q A S A L T A T P F A P P L S F S G N P L H C N CELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLVLEGQAAT VSEVTTTSALVKWSVSKSAPRVKMYQLQYNCSDDEVLIYRMIPASNKAFVVNNLVSGTGY DLCVLAMWDDTA - TTLTATNIVGCAQFFTKADYPQCQSMHSQILGGTMILVIGGIIVATL Gaps 19; Length 551; 140; Indels DB 23; Score 1545.5; DB 2: Pred. No. 2.8e-109;); Mismatches 140; •• 8, 2003, 21:28:18 37.8%; Scor 57.6%; Pred Query Match 37.8% Best Local Similarity 57.67 Matches 311, Conservative completed: June 551 AA; 68 secs œ ማ 64 124 184 240 411 89 128 188 308 300 368 360 428 488 471 Sequence 248 ... time Search c Job time \hat{o} g 8 q δ q δ q δ g S q δ q 8 g S g



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28 222 5.4 180 3 U5-08-986-485-8 Sequence 8, Appli 29 222 5.4 28 105-08-986-485-8 Sequence 8, Appli 30 203 5.4 28 11 US-07-613-0835-4 Sequence 7, Appli 31 201 4.9 320 1 US-07-613-0838-1 Sequence 7, Appli 32 198 4.8 610 1 US-07-613-0838-1 Sequence 6, Appli 33 198 4.8 610 1 US-08-119-2258-66 Sequence 11, Appl 34 198 4.8 610 1 US-08-119-2258-66 Sequence 11, Appl 35 197 4.8 610 1 US-08-524-506-2 Sequence 2, Appli 36 197 4.8 610 1 US-08-524-506-2 Sequence 2, Appli 37 197 4.8 560 3 US-08-525-500-2 Sequence 2, Appli 38 197 4.8 560 105-0913-950-4 Sequence 11, Appl 39 197 4.8 560 US-08-525-5005-2 Sequence 2,	ALIGNMENTS Result.T. 1	US-09-131-648-2 Sequence 2, Application US/09131648 Patent No. 616820 Sequence 2, NPCPRMATION: Patent No. 616820 SERVERAL INFORMATION: APPLICANT: Yue, Henry APPLICANT: Yue, Henry APPLICANT: Yue, Henry APPLICANT: Suegler, Karl J. APPLICANT: Cueley, Neil C. APPLICANT: Cueley, Neil C. APPLICANT: Cueley, Neil C. APPLICANT: Suetherson, Chandra TITLE OF INVENTION: EXTRACELULAR ADHESIVE PROTEINS FILE REFERENCE: PP-0576 US	CURRENT APPLICATION NUMBER: US/09/131,648 CURRENT FILING DATE: 1998-08-10 NUMBER OF FILING DATE: 1998-08-10 SOFTWARE: PERL Program SEQ ID NO 2 LENGTH: 708 LENGTH: 708 TYPE: PT ORCANISM: HOMO SAPIENS	; FEATURE: - ; OTHER INFORMATION: 2687731 US-05-131-648-2 .	actr 4 4
<pre>GenCore version Copyright (c) 1993 - 2003 in - protein search, using sw model June 8, 2003, 21:27:43 ; Sea (w 64 US-09-831-846-2 score: 4094 i METLLGGLLAFGMAFAVVDA table: BLOSUM62 correct correct</pre>	Total number of hits satisfying chosen parameters: 262574 Minimum DB seq length: 0 Maximum DB sec length: 0	<pre>ccessing: minimum Match 0% Ccessing: Minimum Match 100% Maximum Match 100% Listing first 45 summaries Issued_Patents AA:* 1</pre>	6: Pred. No. is score greater ind is derive	Watch Length DB	1 368 9.0 708 4 US-00-131-648-5 Sequence 5 Appli 2 351 8.0 1091 3 US-00-966-485-5 Sequence 5 Appli 5 284.5 6.9 1525 3 US-009-966-485-2 Sequence 2 Appli 5 284.5 6.9 1525 3 US-09-191-647-2 Sequence 2 Appli 7 284.5 6.9 1525 4 US-09-191-647-2 Sequence 2 Appli 7 284.5 6.9 1525 4 US-09-191-647-7 Sequence 2 Appli 9 263 6.4 1480 4 US-09-191-647-7 Sequence 2 Appli 10 263 6.4 1480 4 US-09-181-647-7 Sequence 2 Appli 11 263 6.4 1480 4 US-09-181-647-7 Sequence 2 Appli 11 263 6.4 1480 4 US-09-181-647-7 Sequence 7 Appl

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Query Match 9.0%; Score 368; UB 3; Length 1091; Best Local Similarity 9.0%; Pred. No. 6.6e-22; 1091; Matches 205; Conservative 32; mismatches 326; 1041; Matches 305; Conservative 32; mismatches 326; 1041; 333; Qy 30 LSESLGTLCPSKGLLFVPPDIDRRTVELRIGGRF11HISROPFANMTGLVDLT 82 Db 188 LSRSLITLR;SKNRTTQLPVKAFKLPRLTQLDLNRNRFLIEGLTFOGLDSLEVLR 243 Qy 83 LSRNTISHIOPFSFLDLESLRSLHLDSNRLPSLGEDTLRGLVNLQHLIVNNOLGGIADE 142 Db 24 LORNNTSPTTTAGENELSURGLSUNLHTLENNSKLPSLGEDTLRGLVNLQHLIVNNSCGGADE 142	AFEDFLITTLEDLDLSYNNLHGLPWDSVRRWYNLHQLSUDHYLLDHIAEGTFADLOKLARL AFEDFLITTLEDLDLSYNNLHGLPWDSVRRWYNLHQLSUDHNLLDHIAEGTFADLOKLARL SCOKLHELLISFNNLTRLDEESLAELSSLSILRLSHNAISHIAEGAFKGLKSLRVL DLTSNLQKLPPPIPARSQASLT-ATPFAPPLSFFFGGNLH- DLTSNLQKLPPPIPARSQASLT-ATPFAPPLSFFFGGNLH-	Db 363 ¹ / ₁ DHNEISGTIEDTSGAFTGLDNLSKLTLFGNKIKSVAKRAFSGLESLEHLNLGENAIRS 4.22 Qy 246	Qy 278 HVREEEFVCBPDLITQ203 l i i i i i i 1 bb 483 SVLPDSFVCDDFPKPOIITQPETTMAVVGKDIRFTCSAASSSSSPMTFAWKKDNEVLANA 542	QY 294 297 297 297 297 297 297 297	QY 298LLVLEGQAATLKCKAIGDFSPLIHWVAPDDRLVGNS 333 1	Qy 334 SRTAVYDNGLIDIFITTS ODSGAFTCIAANAAGEATAMVEVSIVOLPHLSNGTSRTA 390 Db 657 -DVFFITDVKIDDMGVYSCTAQNSAGSVSANATLTVLETPSLA 698	Qy 391 PPKSRLSDITGSSKTSRGGGGGGGGGGGGPPKSPPERAULVSEVTTSALVKMSVSKSAPRVK 450 Db 69 VPLE	Qy 451 MYQLQYNCSDEVLIYRMIPASNKAFVVNNLVSGTGYDLCVLAMWDDTAT-TLTATNIVG 509 Qy 451 MYQLQYNCSDEVLIYRMIPASNKAFVVNNLVSGTGYDLCVLAMWDDTAT-TLTATNIVG 509 Db 728 MLKGGRPLSLTERHHFTP-GNQLLVVQNVMIDDAGRYTCEMSNPLG 772	Qy 510 CAQFFTKADY POCQSMHSQILGGTIULUTGGTIUATLLVFIVILMVRYKVCNHEAPS 566 0p 773 TERAHSQLSILPTPGCRK-DGTTVGIFTIAVCSIVLTSLVWVCIIYQTRKK 823	Qy 567 KWAAAVSNVYSQTNGAQPPPSSAPAGAPPQGPPKVVVRNE607 Qy 567 KWAAAVSNVYSQTNGAQPPPSSAPAGAPPQGP	QY 608 LLDFTASLARASDSSSSSSLGSGEAAGLGRAFWRIPPSAPR-PKPSLDRLMGAFAS 662 Db 1 1 1 1 1 Db 878 LRDPSLFFEVDIHSTTCROPKLCVGYTREPWKVTEKADRTAAPHTTAHSGSAVCSDCS 935	Qy 663 LDLKSQRKEELLDSRTPAGRGAGTSARGHHSDREPLLGEPPAARARSLLPLPLEGKAKRSH 722 Db :	QY 723 SFDMGDFAAAAAGGVVPGGYSPPRKVSNIWTKRSLSVNGMLLPFEESDLVGARGTFGSSE 782 Db 982 TL SGGSLYPSNHDRILPSLKNKAASADGN-GDSS 1014	QY 783 WVM 785 Db 1015 WTL 1017
DNLPDLRKIEATNNPRLSYIHPNAFFRLPKLESLMLNSNALSALYHGTIESLPNLKEISI GGNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEP : : : : : : : : : : : : :	345 DIFTTTSQUEAFTCIATANAAGEATANVEVSIVOLPHLENSISKTAPKLEDLIGSK 404 	<pre>461 DEVLIYRMIPASNKAFVVNNLVSGTGYDLCVLAMWDDTATTLTATNIVGCAQFFTKADYP 520</pre>	617 D-QKEYERNNTTTLMACLGGLL 637	SULY 2 - 08-985-5 Sequence 5, Application US/08986485 Patent No. 6046030	GERERAL INFORMATION: APPLICANT: WU, SHUJIAN APPLICANT: SWEET, RAYNOND APPLICANT: TRUNEH, ALEMSEGED	INVENTION: SEQUENCES DENCE ADDRI EE: RATNEI	5 . <u>6</u> 5	ZIF: 19482 COMPUTER READABLE FORM: MEDIUM TYPE: Diskette COMPUTER: IBM Compatible	OPERATING SYSTEM: DOS SOFTWARE: FastEg for Windows Version 2.0 CUBRENT APPLICATION DATA APPLICATION NUMER: US/08/986,485	FILING VAIE: 08-DEC-1997 CLASSIFICATION: PRIOR APPLICATION DATA: APPLICATION NUMBER: 60/059,448	FILING DATE: 22-SEP-1997 ATTORNEY/AGENT INFORMATION: NAME: PRESTIA PAULF REGISTRATION NIMBER: 23.03	BE CO	SEL C	TYPE: amino acid STRANDEDNES: single TOPOLOGY: linear MOLECULE TYPE: protein -08-986-485-5

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294HTHK	 548 ADMENFVHVHAQDGEVMEYTTILHLRQVTFGHEGRYQCVITNHFGSTYSHKARLTVNVLP 60 	Qy 298 LULEGQAATLKCKAIGDFSPLIHWVAPDDRLVGN 332 : : ! ! ! ! ! ! ! Db 608 SFTKTPHDITIRTTTVARLECAATGHPNPQIAWQKDGGTDFPAARERRMHVMPDD 662	(HLIG-1) Qy 333 SSRTAVYDNGTLDIFITTSQDSGAFTCIAANAAGEATAMVEVSIVQLPHLSNSTSRT	Db 663 DVFFIIDVKIDDAGV2CTAQNSAGSISANATLTVLETPSLV 704	QY 390 APPKSRLSDITGSSKTSRGGGGGGGGGGGGGGGFPKSPERAVLVSEVTTTSALVKWSVSKSAPRV 449	Db 705 VPLEDR		Db 733 TWFKGDRPLSLTERHHLTP-DNQLLVQNVVAEDAGRYTCEMSNTLG 778	2.0 Qy 510 CAGFFTKADYPQCQSWHSQ1GGTWILVIGGTIVATLLVFIVILMV : : : : : : : : :	Db 779TERAHSQLSVLPAAGCRKDGTTVGIFTIAVVSSIVLTSLVWVCII	Oy 556 RYKVCNHEAPSKMAAAVSNYSOTPAPSSAPAGAPPGPPKVVNNE 607 I I I III Db 827 RKKSEPSYTMTDETVPPDVPSYLSOGTLSDRQETVRTE 868		RESULT 4 US-09-063-951 · commons		TITLE OF INVENTION: DOUGLAS A TITLE OF INVENTION: THEREFOR TITLE OF INVENTION: THEREFOR	CURRENT APPLICATION NUMBER: US/09/063,950C CURRENT FILING DATE: 1998-04-21	SECTIONARE: PATENTIN VER. 2.0 SECTIONO 2 · FIRMARE: PATENTIN VER. 2.0	DB 3; Length 1101; TYPE: PF: PF: PF: PF: PF: PF: PF: PF: PF: PF	23; Query Match 7.3%; Score 299; DB	FVPPDIDKRTVELKLGGNFILHISRODFANWTGLVDLT 82 	SNRLPSLGEDTLRGLVNLQHLIVNNNQLGGIADE			SHNSISHIAEGAFKGLRSLRVL 367 QY 128 HLIVNNQLGGIADEAFEDFLLFLEDLDLSYNNLHGLPWDSVRRWVNLHQLSLDHNL	DDIVENEUOKLPPDFIFARSOASALTATPFRAPELSFSEGGN 242 DIVENSETE : : : : : : : : : : : : : : : : : :	GLKGRYF :	
-2 Application US/08986485		WU, SHUJIAN SWEET, RAYMOND TRUNEH, ALEMSEGED	IG-1 HOMOLOG	CORRESPONDENCE ADDRESS: ADDRESSEE: RATNER & PRESTIA STREFT: D. BOX 9A0	VALLEY FORGE		MUTE: 13402 Medium Type: Diskette	COMPUTER: IBM Compatible OPERATING SYSTEM: DOS	DATA: DATA:	APPLICATION NUMBER: US/08/986,485 FILING DATE: 08-DEC-1997	CLASSIFICATION: PRIOR APPLICATION DATA: PAPLICATION NUMBER: 60/059,448	4 F	NAME: PRESTIA, PAUL F REGISTRATION UNDER: 23,031 DEPEDENCE/INCKET NIMBED: CULINISA	Цо	TELEFAX: 010'40'-U/01 TELEX: 046169 FORMATION FOR SEQ ID NO: 2: SFOIMATION FOR SEQ ID NO: 2:	1101 amino acids hino acid Drss. sincle	i protein	6%; Score 351; DB 6%; Pred. No. 1.8e-		30 LSESLGTLCPSKGLLFVPPUIDKRTVELKU 	HIQPFSFLDLESLRSLHLDSNRLPSLGEDT	KLTDGAFWGLSKMHVLHLEYDSLVEVNSGS	TLEDLDLSYNNLHGLPWDSVRRMVNLHQLS	KLHELVLSFNNLTRLDEESLAELSSLSVLR	DLTSNRLQKLPPDPIFARSQASALTATPFAPPLS 		SVOFDAFVKMKNLKELHTSSDSFLCDCOLKWLPPWLTGMLOAFVTATCAHDF

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QY243PLHCKCELLWIRKLERDDDLETCGSPGGLKGRYFWHYREBEFVC286Db210NIXCDCHLAWLSDWLKKRPRVGLYTQCMGPSHLRGHNVAEVQKREFVC257Db210NIXCDCHLAWLSDWLKKRPRVGLYTQCMGPSHLRGHNVAEVQKREFVC257RESULT 6US-09-540-245A11111DUS-09-540-245A-211111FSGUREC 2.Application US/09540245A156FSGUREC 2.Application US/09540245A159FSGUREC 2.Application US/09540245A159FSGUREC 2.Application US/09540245A159FRICKNTTFRICKThomasAPPLICANTKAtjanMarcAPPLICANTFOROMINICON109/540,245AFTILE REFERENCE:B90/301-3311APPLICANTTesser-Lavigne, MarcTITLE OF INVENTION:Modulating RODO:Ligand InteractionsFTILE REFERENCE:2000-33-31FRICK APPLICATION NUMBER:60/065,544FRICK APPLICATION NUMBER:60/065,544FRICK FLING DATE:109/55,544FRICK FLING DATE:10005:FRICK FLING DATE:10005:FRICK FLING DATE:10005:FRICK FLING DATE:10005:FRICK FLING DATE:10005:FRICK FLING DATE:10005:FRICK FLINGNUMBER OF SEQ ID NOS:FURKERT FLINGNUMBER OF SEQ ID NOS:FRICK FLINGTAGANISM: humanSOCTAMARE1105FURKERT FLINGNUMBER OF SEQ ID NOS:FURGANISM: HUMAN105-540-245A-2FURGANISM: HUMAN10007FURGANIS	Query Match6.9%; Score 284.5; DB 4; Length 1525; Best Local Similarity, 29.2%; Pred. No. 1.1e-14; Best Local Similarity, 29.2%; Pred. No. 1.1e-14; Matches 84; Conservative 36; Mismatches 117; Indels 51; Gaps 6; or 9 LaFGMAFAYUPACPKYCVCONLSESLGTLCPSKGLEPPDDIRRTVELKLGGNF 63 11 LisLGUVLAILNKVAPOACPAQCSCSGSGTVDCHGLALRSVPRNIPRNTERLDLNGNN 66 ov 64 IIHISROPEANMTGLVDLAINTURVAPOACSCSGSTVDCHGLALRSVPRNIPRNTERLDLNGNN 66 ov 64 IIHISROPEANMTGLVDLAENTTISRNTSIPTERSLESLHLDSNRLPSLGEDTLRGL 123 dy 11 LSLGUVLAILNKVAPOACPAQCSCSGSGTVDCHGLALRSVPRNIPRNTERLDLNGNN 66 ov 124 VNLQHLIVNNVQLGGIADEAFEDFLLTLEDLDLSYNNHHGLPWDSVRRWVNLHQLFPELLFLGT 126 ov 124 VNLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNHHGLPWDSVRRWVNLHQLSPUBLINGT 126 ov 124 VNLQHLIVNNVQLGGIADEAFEDFLLTLEDLDLSYNNHHGLPWDSVRRWVNLHQLSPUBLIN 183 Db 122 ALTRTLDLSENOIOAIPRRAFRGAVDIKNLQLNNN 161 123 ALTRTSVASFNHMFLRTFRLHSN 209 0V 184 LLDHIAEGFFADLCKLARLDLTSRNLOKLPPPDIFFARSOASALTATPFAPPL-SFSFGGN 242 cy 184 LLDHIAEGFFADLCKLARLDLTSRNLOKLPPDIFFARSOASALTATPFAPPL-SFSFGGN 242 cy 184 LLDHIAEGFFADLCKLARLDLTSNNLOKLPPDIFFARSOASALTATPFAPPL-SFSFGGN 242 cy 184 LLDHIAEGFFADLCKLARLDLTSRNLOKLPPDIFFARSOASALTATPFAPPL-SFSFGGN 242 cy 243 PLHCNCELLMLRRLERDNLTTSNNLITRLSVASFNHMFLRFFRLHSNN 209 cy 243 PLHCNCELLMLRRLERDDLETCGSFGGGLKGRYFWHVREREFYC 286 cy 124 NLCCHLAMLSDMKFRFRUCTYTCCMGFSHLRGHNVAEVCRFFLHANNNTFRLSVASFNHMFLRFFRUCS 257	RESULT 7 US-09-540-153-2 US-09-540-153-2 Sequence 2, Application US/09540153 Factent No. 6270995 CENERAL INFORMATION: FAPLICANT: Goodman Corey APPLICANT: Brose, Katja APPLICANT: Brose, Katja APPLICANT: Brose, Katja APPLICANT: Brose, Katja APPLICANT: Brose, Katja APPLICANT: Brose, Katja CURRENT PILING UST: 000131 FILE RFFRENCE: D990-03131 FILE RFFRENCE: D990-03-31 CURRENT APPLICATION NUMBER: 05/081,057 FILIS RFILING DATE: 1998-04-07 FILIS PILING DATE: 1998-04-07
QY 248 CELLMLERLERDDLETCGSPGGLKGRYFWHYREBEFVGE-PELITQHTHKLLULEGQAA 306 Db 304 CPLSWFGPWYRESHV-TLASP	UG:09-191-647-2 Sequence 2, Application US/09191647 Sequence 2, Application US/09191647 Sequence 2, Application US/09191647 APPLICANT: Goodman, Corey APPLICANT: Brose, Marc APPLICANT: Brose, Katja APPLICANT: BROSE, 1999-11-13 EXALIFE APPLICATION NUMBER: 60/081,057 EXALIFE APPLICATION NUMBER: 60/081,057	Query Match6.9%; Score 284.5; DB 3; Length 1525; Best Local Similarity 29.2%; Pred. No. 1.1e-14; Matches 84; Conservative 36; Mismatches 117; Indels 51; Gaps 6; Matches 84; Conservative 36; Mismatches 117; Indels 51; Gaps 6; Db6; Intervative 7000000000000000000000000000000000000

11-846-2.rai Page 5	Qy 183 NLLDHIAEGTFADLOKLARLDLTSNRLOKLPEDPIFARSQASALTATPFAPL-SFSFGG 241 Db 167 NHISCIEDGAFRALRDLLEILTINNNNISRILUTSNHMPKIRTLRLHS 214 Qy 242 NPLHCNCELLWIRRLERDDLETCGSPGGLKGRYFWHVREEFVCEPPLITQHTHK 297 Db 215 NHLYCORLLALALSDMLRQFTLCMAPVHLRGFNVADVOKKETVCPAP 266 Qy 298 LLVLEGQAATLKCKAIGDPSP 318 Qy 298 LLVLEGDAATLKCKAIGDPSP 318 Db 267HSEPSCNANSISCPSP 283	RESULT 9 US-00-191-647-7 Sequence 7, Application US/09191647 Sequence 7, Application US/09191647 Patent No. 6046015 GENURALI INFORMATION: APPLICANT: Kid, Thomas APPLICANT: Brose, Katja APPLICANT: Brose, Katja APPLICANT: Tessier-Lavigne, Marc APPLICANT: Tessier, Lavigne, Marc APPLICANT: Tessier, 1998-04-07 APPLICANT: Tessier, 1	1480 1480 : Drosophila mel 7-7 h similarity 28 89; Conservativ	QY 6 GGLLAFGMAFAVVDA-CPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVBLR 59 Db 51 GGLGSVGIHIPGGGVVITEARCPRVCSCTGLNVDCSHRGLTSVPRKISDVERLE 106 QY 59 LGGNF11HISRODFANNTGLVDLTLSRNTISHIOPFFFLDESELRELHLDSNELPELGED 118 QY 59 LGGNF11HISRODFANNTGLVDLTLSRNTISHIOPFFFLDESELRELHLDSNELPELGED 118 Db 107 LQGNNLTVIYETPRRLFQLTPLNQTTTLGLTDNQTHTTERNSPODLVSLERLDISSNNLTTVGRR 166 QY 119 TLRGLVNLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNLHGLPWDSVRRWVNLHQL 178 Db 167 VFKGAQSLRSLQLDNNQTTCLDEHAFKG-LVELEILTLNNNNLTSLP212	Qy 179 SLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATFFAPPLEFS 233 Db 213 HNIFGGLGRLARLRLSDNPFA 233 Qy 239 FGGNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEFVCEPPLITQH 294 Db 239 FGGNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEFVCEPPLITQH 294 Db 239 FGGNPLHCNCELLWBRRLERDDDLETCGSPGGLKGRYFWHVREEFVCEPPLITQH 294	295 THKLLVLEGQAATLKCKA 312 295 THKLLVLEGQAATLKCKA 312 385APMECGA 291 285APMECGA 291 509-540-245A-7 509-540-245A-7 500-540-540-540-540-540-540-540-540-540-
Tue Jun 10 08:57:38 2003	<pre>% NUMBER OF SEQ ID NOS: 14 % SEQ ID NO 2 % SEQ ID NO 2 % LENGTH: 1525 % TYBE: PRT % ORGANISM: human US-09-540-153-2 Query Match 6.9%; Score 284.5; DB 4; Length 1525; Beet Local Similarity 29.2%; Pred. No. 1.1e-14; Matches 84; Conservative 36; Mismatches 117; Indels 51; Gaps 6;</pre>	QY9LAFGWAFAVUDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNF63Db11LSLGLVLAILMKVAPQACPAQCSCSGSTVDCHGLALRSVPRNIPERLDLNGNN66CY6411H1SRODFANMTGLVLTLSRNT1SHIQPFSFLDLESLRSLHLDSNRLPSLGEDTLRGL123CY671TRITKTDFAGLRHLRVLQLMBNKISTIERGAFQDLKELERLRLNRNHLQLFPELLFLGT126CY124VNLOHLIVNNOLGGIADEAFEDFLLTLEDLDLSXNNLHQLELPRLRRNHHQLSLDHN183Db127AULX	RESULT 8 US-09-182-024A-2 ; Sequence 2, Application US/09182024A ; Patent No. 6342370 ; GENERAL INFORMATION: ; APPLICANT: Comolly, Timothy ; APPLICANT: Rajput, Bhanu ; TITLE OF INVENTION: Human Slit Polypeptide and Polynucleotides Encoding ; TITLE OF INVENTION: Suma	FILE REFERENCE: 640100-271 CURRENT APPLICATION NUMBER: US/09/182,024A CURRENT FILING DATE: 1998-102/082,946 PRIOR PFLICATION NUMBER: 60/063,946 PRIOR PFLICATION NUMBER: 60/096,420 PRIOR PFLICATION NUMBER: 60/096,420 PRIOR PFLING DATE: 1999-08-13 NUMBER OF SEQ ID NOS: 5 SOFTWARE: PatentIn Ver. 2.1 SEQ ID NO 2 LENGTH: 1523	, DREDEIRY , ORGANISM: Homo sapiens US-09-182-024A-2 Query Match Best Local Similarity 26.8%; Pred. No. 2.5e-13; Matches 86; Conservative 41; Mismatches 130; Indels 64; Gaps 7;	QY 9 LAFGMAFAVVDACPKYCVCONLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGN 62 Db 16 1

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Query Match6.4%; Score 263; DB 4; Length 1480;Best Local Similarity28.0%; Pred. No. 6.3e-13;Matches89; Conservative39; Mismatches102; IndelsNatches89; Conservative29; GallargmarAvvDa-CPKYCVCONLSESLGTLCPSKGLLFVPPDIDRRTVELR206 GGLARGMAFAvvDa-CPKYCVCONLSESLGTLCPSKGLLFVPPDIDRRTVELR2111; 12911; 1291429162916205920592110; 12111; 12111; 12210; 102311; 12111;	239 FGGNPLHCNNELL 234Clell 295 THKLLVLEGQAAT 285AF	US-09-182-024A-5 Sequence 5, Application US/09182024A Patent No. 6432370 Patent No. 6432370 Patent Nor 642370 Patent Nor 642370 Patent Nor 642370 Patent Nor 642370 Patent Nor 640100-21 Patent Nor 182 Patent Nor 640100-21 Patent Nor 182 Patent Nor 640100-21 Patent Nor 182 Patent Nor 640100-21 Patent Nor 182 Patent Nor	CURRENT APPLICATION NUMBER: US/09/182,024A CURRENT FILING DATE: U998-10-29 FRIOR APPLICATION NUMBER: 06/063,946 FRIOR APPLICATION NUMBER: 66/096,420 FRIOR APPLICATION NUMBER: 66/096,420 FRIOR APPLICATION NUMBER: 66/096,420 NUMBER OF SEQ ID NOS: 5 SOFTWARE: PALENTIN VET 2.1 SOFTWARE: PALENTIN VET 2.1 CONTANTE: POSOPHILA MELANOGASTER	Overy Match Query Match Query Match Best Local Similarity 28.0%; Pred: No. 6.3e-13; Matches 89; Conservative 39; Mismatches 102; Indels 88; Gaps 11; Matches 89; Conservative 39; Mismatches 102; Indels 88; Gaps 11; Qy 6 GGLLAFGMARAVUDA-CPKYCCQNLSESLGTLCPSKGLLFVPPDIDRRTVELR 58 Db 51 GGLGSVGTHIPGGCVGVITEARCPRVCSCTGLNVDCSHRGLTSVPRKISADVERLE 106	QY 59 LGGNFILHISROPFANMTCLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGED 118 Db 107 LQGNNLTVTYETDFQRLTKLRMLQLTDNQIHTIERNSFQDLVSLERLDISNNVITTVGRR 166 QY 119 TLRGLVNLQHLIVNNVQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVLHQL 178 Db 167 VFKGAQSLRSLQUNNQITCLDEHAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVLHQL 178 Db 167 VFKGAQSLRSLQUNNQITCLDEHAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVLHQL 212 QY 179 SLDHNLDHIAECTFADLOKLAREDLTSLDLSYNNLHGLPWDSVRRMVLHQL 212 QY 179 SLDHNLDHIAECTFADLOKLAREDLTSLDEHAFG-LVELELTLNNNNLTSLP
APPLICANT:Kid, ThomasAPPLICANT:Brose, KatjaAPPLICANT:Tessier-Lavigne, MarcAPPLICANT:Tessier-Lavigne, MarcTITLE OFINVENTION:FILE REFERENCE:B98-031-3FILE REFERENCE:B98-031-3CURRENT APPLICATION NUMBER:US/09/540,245ACURRENT FILING DATE:2000-03-31PRIOR APPLICATION NUMBER:60/065,544PRIOR APPLICATION NUMBER:60/081,057PRIOR PLICATION NUMBER:60/081,057PRIOR PLICATION NUMBER:60/081,057PRIOR FILING DATE:1997-11-14PRIOR FILING DATE:1998-04-07NUMBER:F0/081,057PRIOR FILING DATE:1998-04-07NUMBER:PRIOR FILING DATE:PRIOR FILING DATE:1998-04-07NUMBER:PRIOR FILINGPRIOR FILINGORSANISPRIOR FILINGPRIORPRIOR FILINGPRIORPRIOR FILINGORSANISPRIOR FILINGPRIORPRIOR FILINGPRIORPRIOR FILINGPRIORPRIOR FILINGPRIORPRIOR FILINGPRIORPRIO	Query Match 6.4%; Score 263; DB 4; Length 1480; Best Local Similarity 28.0%; Pred. No. 6.3e-13; Matches 89; Conservative 39; Mismatches Matches 89; Conservative 39; Mismatches 6 GGLLAFGMAFAVVDA-CPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELR 1 : : :: : 51 GGLGSVGIHIPGGGVGVITEARCPRVCSCTGLNVDCSHRGLTSVPRKISADVERLE 59 LGGRNFIHIERQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLDSLGED 51 LGGNFIHIERQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLDSLGED	DD 107 LQGNNLTVIYETDFQRLTKLAMLQLFDNQ1HT1EKNSFQULVSLEKLDISNNV111VGKK 100 QY 119 TLRGLVNLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWVNLHQL 178 167 VFKGAQSLRSLQLDNNQITCLDEHAFKG-LVELEILTLNNNNLTSLP212 QY 179 SLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATFFAPPLSFS 238 179 SLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATFFAPPLSFS 238 DD 213HNIPGGLGRLRALRLSDND12 213HNIPGGLGRLRALRLSDN213	6 4 U U F *	<pre>patent No. 6270995 GENERAL INFORMATION: APPLICANT: Goodman, Corey APPLICANT: Kid, Thomas APPLICANT: Brose, Katja APPLICANT: Brose, Katja APPLICANT: Tessier-Lavigne, Marc TITLE OF INVENTION: Modulating Robo: Ligand Interactions FILE REFRENCE: B98-031-3 CURRENT APPLICATION NUMBER: US/09/540,153</pre>	CURRENT FILNES DATE: 2000-03-31 PRIOR APPLICATION NUMBER: 09/191,647 PRIOR FILING DATE: 1998-11-13 PRIOR FILING DATE: 1998-04-07 PRIOR FILING DATE: 1999-04-07 NUMBER OF SED ID NOS: 14 SOFTWARE: PATENLIN VET. 2.0 SOFTWARE: PATENLIN VET. 2.0 SEQ ID NO 7 LENGTH: 1480 TYPE: PRT ; ORGANISM: Drosophila melanogaster US-09-540-153-7

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; LOCATION: 1405 to 1480 ; IDENTIFICATION METHOD: experimental PCT-US91-09055-2	Query Match 6.4%; Score 263; DB 5; Length 1480; Best Local Similarity 28.0%; Pred. No. 6.3e-13; Matches 89; Conservative 39; Mismatches 102; Indels 88; Gaps 11;	Qy 6 GGLLAFGMAFAVVDA-CPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELR 58 Qy 1 1 1 1 Db 51 GGLGSVGIHIPGGGVGVTIEARCPRVCSCTGLNVDCSHRGLTSVPRKISADVERLE 106	Qy 59 LGGNFIIHISRQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGED 118 Db 107 LQGNNLTVIYETDFQRLTKLRMLQLTDNQIHTIERNSFQDLVSLERLDISNNVITTVGRR 166	QY 119 TLRGLVNLQHLIVNNNQLGGIADEAFEDFLLFLEDLDLSYNNLHGLPMDSVRRMVNLHQL 178 ; ; ; ;	Qy 179 SLDHNLLDHTAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATFFAPPLSFS 238 D 11 1 1 1 D 213 HNI FGGLGRLRALRLSDN 233	WLRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLIT	Db 234 CDCHLSWLSRFLRSATRLAPYTRCQSPSQLKGQNVADLHDQEFKCSGLTEH 284	QY 295 THKLLVLEGQAATLKCKA 312	Db 285APMECGA 291	RESULT 14	PCT-US91-09055-3 ; Sequence 3, Application PC/TUS9109055	rg, Jonathan Marc and Artavanis-Tsakonas, Spyridon	Purified SLIT protein and Sequence Eler 9	8		- 4	; STATE: Connecuticut . COINTRY. 11SA		<pre>/ Computers Type: Distance 3.50 inch. 800 Kb storage / COMPUTER: Anole Macintosh</pre>	SYS		[27	PRICE APPLICATION DATA: PRICE APPLICATION DATA: ADDI TEATION NIMMERE	CT ' 520 / /	ATTORNEY/AGENT INFORMATION: NAME: Barch, Richard J. REGISTRATION NUMBER: 28,180	REFERENCE/DOCKET NUMBER: 900964/RSB TELECOMMUNICATION INFORMATION:	TELEPHONE: (212) 972-1400 TELEFAX: (212) 370-1622	INFORMATION FOR SEG ID NO: 3: SEQUENCE CHARATERISTICS:	LENGTH: 222 amino acids TYPE: AMINO ACIDS
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QY 239 FGGNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQH 29 QY 234 :: :: :: :: :: :: :: :: :: :: :: :: :::: :::: :::: :::: ::::::: :::::: ::::::: ::::::: :::::::: ::::::::: ::::::::::::::::::::::::::::::::::::	Qy 295 THKLLVLEGQATLKCKA 312 Db 285 APMECGA 291	RESULT 13 PCT-US91-09055-2	<u>ъ</u> –	NUMBER OF SEQUENCES: 9 CORRESPONDENCE ADDRESS: ADDRESSEE: Yale University ADDRESSEE: Office of Cooperative Research	STREET: 246 CAUTCA STREET STREET: Suite 401 CITY: New Haven STATE: Connecuticut	COUNTRY: USA ZIP: 06510	A B	COMPUTER: Apple Macintosh Operating System: Macintosh 6.0.5 Commune Misconst Michael Mond	36	FLUNG DATE: 19911127 CLASSIFICATION: 435	PRIOR APPLICATION DATA: APPLICATION NUMBER: US/07/624,135	FILING DATE: 7-DEC-1990 ATTORNEY/AGENT INFORMATION:	NAME: Barth, Richard J. Registration Number: 28,180	REFERENCE/DOCKET NUMBER: 900964/RSB TELECOMMUTCATION INFORMATION:	TELEPHONE: (212) 972-1400 TELEFAX: (212) 370-1622	TELEX: 236268 INFORMATION FOR SEQ ID NO: 2:	SEQUENCE CHARACTERISTICS: LENGTH: 1480 amino acida	TYPE: AMINO ACIDS TODOLOGY. Linear	MOLECULE TYPE: protein FEATURE:	ΞΥ	DENTIFICATION METHOD: similarity to other signal	OLDAR INFORMATION: DILECES EXPOL NAME/REY: FOUR Flank-LRR-Flank domains I.Cranton: 37 frout	Array	VIER INTERALON: MEGLACES AUTESIVE EVENUE NAME/KEY: Tandem EGF-like repeats	LOCATION: 911 to 1150 IDENTIFICATION METHOD: similarity to tandem EGF-like OTHER INPORMATION: protein-protein interactions	NAME/KEY: 7th EGF-like repeat LOCATION: 1353 to 1393	IDENTIFICATION METHOD: similarity to epidermal growth OTHER INFORMATION: INVOLVEMENT IN receptor-ligand	NAME, ALT, ALTUTIALIVE SPITCE SEGMENT LOCATION: 1394 to 1404 IDENTIFICATION METHOD: experimental	51

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<pre>treat the second second second second streat second second streat second streat second streat second s</pre>	CPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNFI1HISRQDFANMTGLVD :	Qy 201 RULLISKLOKAFPDFFFAKSUASALIATFEDSFSFORMEDTATEDSFSFORMEDSFSFORMEDTATEDSFSFORMEDTATEDSFSFORMEDSFSFORMEDSFSFORMEDSFSFORMEDSFSFORMEDSFSFORMEDSFSFORME			
TOPOLOGY: Linear MOLECUE TYPE: protein FEATURE: NAME/KEY: Flank-LRR-Flank 1 LOCATION: 1 to 222 LOCATION: 1 to 222 TIDEWTIFICATION: similarity to other Flank-LRR- COTHER INFORMATION: mediates adhesive events PCT-US91-09055-3 CUEY Match 6.4%; Score 260.5; DB 5; Length 222;	28.4%; vative 3: Lunue 5: Lunue csi Lunue csi Csi Lunue csi Lunue csi Lunue csi	Db 117 EHAFKG-LVELEILTLANNNNLTSLPHNIFGGLGRLR 151 OY 201 RLDLTSNRLOKLPPDPIFARSQASALTATFFAPPLSFSFGGNPLHCNCELLMLRRLERD- 259 Db 152 ALRLSDNPRAPFACDCHLSWLRFLRSA 176 OY 260DDLETCGSPGGLKGRYFWHVBEBEFVCEPPLITOHTHKLLVLEGQAATLKCKA 312 Db 177 TRLAPYTRCGSPSQLKGRYFWHVDEEFVCEPPLITOHTHKLLVLEGQAATLKCKA 312 Db 177 TRLAPYTRCGSPSQLKGGNVADLHDQEFKCSGLTEHAPMECGA 219	COUNTRY: USA ZIP: 19482 COMPUTER READABLE FORM: MEDIUM TYPE: Diskette COMPUTER: IBM Compatible OPERATING SYSTEM: DOS SOFTWARE: FastSED for Windows Version 2.0 CURRENT APPLICATION DATA: SOFTWARE: 08-DEC-1997 CURSEFICATION: CLASSFICATION:	FULL ALTON DATA:APPLICATION NUMBER:APPLICATION NUMBER:APPLICATION NUMBER:ATTONEY (AGENT INCORATION:NAME:NAME:REGISTRATION NUMBER:ATTONEY (ATTA)REGISTRATION NUMBER:ATTELEPHONE:TELEPHONE:ALLEPHONE:ALLEFICONMUNICATION:TELEPHONE:ALLEFICONMUNICATION:TELEREX:ALLEREX:ALLEREX:ALLONATIONTELEREX:ALLONATIONALLONATIONALLONATIONALLEREX:ALLONATIONALLONATIONALLONATIONALLONATIONALLONATIONALLARAXI	SEQUENCE CHARACTERISTICS:

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Pag 1

00011	Sequence 100, App Sequence 100, App Sequence 100, App Sequence 100, App	equence	Sequence 40, Appl Sequence 35, Appl Sequence 35, Appli	equence	sequence 501, App Sequence 501, App Sequence 292, App Sequence 501, App Commands 601, App	edneuce	CH REPEAT			Length 628;	14; Gaps	7 C MINELERELGGNFIIHISRODFANM 77					ASALTATPPAPPLS FSFGGNPLHCNCELLW 252	31
9 US-10-245-033-100 9 US-10-245-621-100 9 US-10-245-621-100 9 US-10-243-095-100 9 US-10-245-185-100 9 US-10-245-427-100 9 US-10-245-427-100	9 US-10-245-473-100 9 US-10-245-770-100 9 US-10-245-877-100 9 US-10-246-976-100	9 US-10-243-320-100 9 US-10-242-743-100 9 US-10-242-845-100 10 US-09-897-214-8 10 US-00-768-876-68	10 US-09-708-826-40 10 US-09-768-826-40 9 US-10-028-392-35 10 US-09-822-687-2	9 US-10-028-392-2 9 US-09-905-291A-292	US-09-989-735-501 US-09-989-293A-501 US-09-989-735-501 US-09-989-735-501	0 US-10-114-893-117	6. L HUMAN L R AND USE /815,626 91,863	ows Version 4.0		а 1 1	88; Mismatches 175;	AVVDACPKYCVCONLSESLGTLCPSKGLLFVPEDIDKRTVELKLGGNFITHISRQFANM	II QPFSFLDLESLRSLHLDSNRLPSI	<pre> i : : GAFADLRALRALHLDGNRLT</pre>	LGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWVNLHQLSLDHNLLDHIAEGTFAD : : : : : : : : : : : : : : :	LAALAAGALDDCAETLEDLDLSYNNLEQLPWEALGRLGNVNTLGLDHNLLASVPAGAFSR	LQKLARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLS	· >
627 627 627 627 727 627 727							SULT 1 -09-815-626-2 *********************************	0S: 17 for wind	sapiens	60 C	Conservative	KYCVCQNI :	AI FSFUFFRUCTUUIUSLF TGLVDLTLSRNTISHIQP	LSRNTIRH	AFEDFLLT	ALDDCAET	DLTSNRLC	DDLETCGS
338.2 38.5 38.5 38.5 38.5 38.5 38.5 38.5 38.5		2.28.2 3.38.2 3.38.2 1.	27.9	10.9	9.9.9.9 9.00 1.00 1.00 1.00 1.00 1.00 1.	10.6	2 Applica 3500200 Sloc200 Slocksm VENTION VENTION VENTION VENTION CATION CATION S DATE:	EQ ID N astSEQ 3	Homo sa -2	, , , , , , , , , , , , , , , , , , ,	311; Conser		LIDULI	TGLLHLS	LGGIADE	LALAAG	LOKLARI	LHKLAKL
1563.5 1563.5 1563.5 1563.5 1563.5 1563.5 1563.5	1563.5 1563.5 1563.5 1563.5	1563.5 1563.5 1563.5 1545.5 1545.5	1144 452 452 452	435.5	435.54 435.5 435.5 74 74 75.5 74 75.5 74 75.5 75.5 75.5	435.5	SULT 1 -09-815-626-2 Sequence 2, A Patent No. US GENERAL No. US GENERAL No. US APPLICANT: G TITLE OF INV TITLE OF INV	UMBER OF SEC OFTWARE: Fat O ID NO 2 LENGTH: 628	: FRI NISM: 5-626	Mat	111 11	v r	- 9L	•	136	143		253
22222	56879 57879	9 9 7 9 7 0 7 7 0 7 7 0 7 7 0 7 7 0 7 7 7 7	100C	800	0 H 0 M 4	47 45	RESULT J US - 09 - 81 C S - 09 - 81 Fatent APPLJ TITLE FILE FILE FILE PRIOF	NUMBER OF SOFTWARE: SEQ ID NO LENGTH:	က်	Query	Match	ð t	8 8	- qa	QY	qq	vo -	a ò
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Ltd	55 Seconds .ignments) .llion cell updates/sec	GTFGSSEWVMESTV 789		c	CROZEF	2	PUB.pep:* PUB.pep:* PUB.pep:* COMB.pep:* COMB.pep:* COMB.pep:* COMB.pep:* COMB.pep:* FUB.pep:* docmB.pep:* docmB.pep:* docmB.pep:* docmB.pep:* docmB.pep:* docmB.pep:*	chance to have a result being printed, stribution.		Description	2, A	100,	sequence 100, App Sequence 100, App Sequence 100, App	,000	100,	100,	100,	100,
GenCore version 5.1.6 ght (c) 1993 - 2003 Compugen Ltd. irch, using sw model	updates/	-2 GWAFAVVDADLVGARGTFGSSEWVMESTV	.0 , Gapext 0.5	3240269 residues	chosen parameters: 39 30	Match 0% Match 100% First 45 summaries	<pre>led Applications_AA:* 26/ptodata/2/pubpaa/US08 NEW PUB.pep:* 26/ptodata/2/pubpaa/US06 NEW PUB.pep:* 26/ptodata/2/pubpaa/US06 PUBCOMB.pep:* 26/ptodata/2/pubpaa/US06 PUBCOMB.pep:* 26/ptodata/2/pubpaa/US07 PUBCOMB.pep:* 26/ptodata/2/pubpaa/US09 NEW PUB.pep:* 26/ptodata/2/pubpaa/US08 NEW PUB.pep:* 26/ptodata/2/pubpaa/US06 NEW PUB.pep:* 26/ptodata/2/pubpaa/US08 NEW PUB.pep:* 26/ptodata/2/pubpaa/US60 NEW P</pre>	umber of results predicted by chance to hav or equal to the score of the result being analysis of the total score distribution.	SUMMARIES	gth DB ID D	10 US-09-815-626-2 Sequence 2, 9 US-10-245-103-100 Sequence 100,	9 US-10-245-107-100 Sequence 100, 9 US-10-245-143-100 Sequence 100, 0 US-10-245-143-100 Sequence 100,	, , , , , , , , , , , , , , , , , , , ,	9 US-10-237-535-100 Sequence 100, 9 US-10-238-183-100 Sequence 100,	9 US-10-228-283-100 Sequence 100, 9 US-10-238-370-100 Sequence 100, 9 US-10-245-055-100 Sequence 100,	9 US-10-245-147-100 Sequence 100, 9 US-10-245-730-100 Sequence 100,	9 US-10-245-739-100 Sequence 100, 9 US-10-246-210-100 Sequence 100,	9 US-10-239-196-100 Sequence 100, 9 US-10-243-024-100 Sequence 100, 9 US-10-243-409-100 Sequence 100,
GenCore version Pyright (c) 1993 - 2003 search, using sw model	<pre>8, 2003, 21:30:28 ; Search time 55 Seconds (without alignmente) 1481.029 Million cell updates/</pre>	9-831-846-2 TLLGGLLAFGMAFAVVDADLVGARGTFGSSEWVMESTV	, Gapext 0.	85 seqs, 103240269 residues	LLISTYING CHOSEN PARAMETERS: JS 0 200000000	Minimum Match 0% Maximum Match 100 Listing first 45	<pre>Published Applications_Ah:* Published Applications_Ah:* Can2_6/ptodata/2/pubpaa/US08 NEW PUB.pep:* Can2_6/ptodata/2/pubpaa/US06_FUB.pep:* Can2_6/ptodata/2/pubpaa/US06_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US06_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US06_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US09_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US09_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US09_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US09_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US09_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US09_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US09_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US09_FUB.pep:* Can2_6/ptodata/2/pubpaa/US09_FUB.pep:* Can2_6/ptodata/2/pubpaa/US09_FUB.pep:* Can2_6/ptodata/2/pubpaa/US06_FUBCOMB.pep:* Can2_6/ptodata/2/pubpaa/US06_FUBCOMB.pep:* 11: /can2_6/ptodata/2/pubpaa/US60_FUBCOMB.pep:* 13: /can2_6/ptodata/2/pubpaa/US60_FUBCOMB.pep:* 14: /cgn2_6/ptodata/2/pubpaa/US60_FUBCOMB.pep:*</pre>	umber of results predicted by chance to hav or equal to the score of the result being analysis of the total score distribution.		Length DB ID	.3 628 10 US-09-815-626-2 Sequence 2, .2 627 9 US-10-245-103-100 Sequence 100,	.2 627 9 US-10-245-107-100 Sequence 100, .2 627 9 US-10-245-143-100 Sequence 100,	9 US-10-245-7/1-100 Sequence 100, 9 US-10-245-851-100 Sequence 100, 9 US-10-245-883-100 Sequence 100,	2 627 9 US-10-237-535-100 Sequence 100, 2 627 9 US-10-238-183-100 Sequence 100,	.2 b2/ 9 US-LU-236-283-100 Sequence 100, .2 627 9 US-10-236-370-100 Sequence 100, .2 627 9 US-L0-245-055-100 Sequence 100,	.2 627 9 US-10-245-147-100 Sequence 100, .2 627 9 US-10-245-730-100 Sequence 100,	.2 627 9 US-10-245-739-100 Sequence 100, .2 627 9 US-10-246-210-100 Sequence 100,	.2 527 9 US-10-239-196-100 Sequence 100, .2 627 9 US-10-234-204-100 Sequence 100, .2 627 9 US-10-243-409-100 Sequence 100,
GenCore version (c) 1993 - 2003 , using sw model	<pre>, 2003, 21:30:28 ; Search time 55 Seconds (without alignments) 1481.029 Million cell updates/</pre>	DLVGARGTFGSSEWVMESTV	Gapext 0.	392085 seqs, 103240269 residues	chosen parameters: 39 30	Match 0% Match 100 first 45	<pre>Published Applications_An.* Published Applications_An.* I: /cgn2_6/prodata/2/pubpaa/US08_NEW_PUB.pep:* 2: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep:* 3: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep:* 5: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep:* 5: /cgn2_6/prodata/2/pubpaa/US07_PUBCOMB.pep:* 7: /cgn2_6/prodata/2/pubpaa/US09_PUBCOMB.pep:* 9: /cgn2_6/prodata/2/pubpaa/US09_PUBCOMB.pep:* 11: /cgn2_6/prodata/2/pubpaa/US09_PUBCOMB.pep:* 11: /cgn2_6/prodata/2/pubpaa/US09_PUBCOMB.pep:* 13: /cgn2_6/prodata/2/pubpaa/US09_PUBCOMB.pep:* 14: /cgn2_6/prodata/2/pubpaa/US06_PUBCOMB.pep:* 14: /cgn2_6/prodata/2/pubpaa/US66_PUBCOMB.pep:*</pre>	the number of results predicted by chance to hav r than or equal to the score of the result being ed by analysis of the total score distribution.		gth DB ID D	1566 38.3 628 10 US-09-815-626-2 Sequence 2, 63.5 38.2 627 9 US-10-245-103-100 Sequence 100,	63.5 38.2 627 9 US-10-245-107-100 Sequence 100, 63.5 38.2 627 9 US-10-245-130 Sequence 100, 63.5 38.2 627 9 US-10-245-143-100 Sequence 100,	.2 02/ 9 US-LU-245-7/1-LUU SEQUENCE 100, .2 627 9 US-L0-245-851-100 SEQUENCE 100, .2 627 9 US-L0-245-883-100 SEQUENCE 100,	563.5 38.2 627 9 US-10-237-535-100 Sequence 100, 553.5 38.2 627 9 US-10-238-139-100 Sequence 100, 553.5 38.2 627 9 US-10-238-139-100 Sequence 100,	563.5 38.2 62/ 9 US-10'-238-283-100 Sequence 100, 563.5 38.2 627 9 US-10'-238-370-100 Sequence 100, 563.5 38.2 627 9 US-10-245-055-100 Sequence 100,	563.5 38.2 627 9 US-10-245-147-100 Sequence 100, 563.5 38.2 627 9 US-10-245-730-100 Sequence 100,	63.5 38.2 627 9 US-10-245-739-100 Sequence 100, 63.5 38.2 627 9 US-10-46-210-100 Sequence 100, 63.5 38.2 627 9 US-10-366-210-100 Sequence 100,	63.5 38.2 627 9 US-10-239-196-100 Sequence 100, 63.5 38.2 627 9 US-10-243-024-100 Sequence 100, 63.5 38.2 627 9 US-10-243-409-100 Sequence 100,

Page 2

Query Match38.2%; Score 1563.5; DB 9; Length 627; Best Local Similarity 53.1%; Pred. No. 1.'Pe-78; Matches 312; Conservative 88; Mismatches 173; Indels 15; Gaps 6; Oy 16 AvvDACFKYCVCONLSESLGTLCPSKGLLFVPPDIDRFTVELRLGGNFIHISRODFANM 75 23 ATPSPCPRRCCOTGSLPLSVLCPGAGLLFVPPDIDRFTVELRLGGNFIHISRODFANM 75 23 ATPSPCPRRCCOTGSLPLSVLCPGAGLLFVPPDIDRFTVELRLGUNFIASVRRDLANM 82 Oy 76 TGLVULTLSRWTISHLOPSELDESLRSLHLDONRLPSLDGGDLRCJUNLHLISSVRRDLANM 82 Oy 136 LGGIADEAFERLADLFALALHLDONRLTSLGGOLRGLWULHLLSNNO 135 OY 136 LGGIADEAFERLADLFALALHLDONRLTSLGGOLRGLWULHLLSNNO 142 OY 136 LGGIADEAFERLDLDLSYNNLHGLPWEALGRUNLHQLSLDNNLHDLISSNO 142 OY 136 LGGIADEAFERLDLDLSYNNLHGLPWEALGRUNVLHQLSLDNNLHDLISSNO 22 DD 143 LAALAGALDCAETLEDLDLSYNNLBOLPWEALGRUNVTLGLDHNLLDHIASV-PGAFRR 201 CY 196 LQKLARLDLTSNNLEDLDLSYNNLBOLPWEALGRUNVTLGLDHNLLDHIASV-PGAFRR 201 CY 196 LQKLARLDLTSNNLFTIPPDLFSSNNLBOLPWEALGRUNVTLGLDHNLLDHIASV-PGAFRR 201 CY 253 LRRLERDDDLEFCGSFGGLKGRYFWAVEBEFVCEPPLITTQHTHKLULDGOANTLKCKA 312 CY 253 LRRLERDDDLEFCGSFGGLKGRYFWAVEBEFVCEPPLITQHTHKLULDGGANTLKCKA 312 CY 253 LRRLERDDDLEFCGSFGGLKGRYFWAVEBEFVCEPPLITGHTHKLULDGANALKCKA 312 CY 253 LRRLERDDDLEFCGSFGGLKGRYFWAVEBEFVCEPPLITGHTHKLULDGANALKCKA 312	QY3131GDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCIANNAGEATAMV372Db319VGDPEPRVRWVSPQGRLLGNSSRARAFPNGTLELLVTEPGDGGIFTCIAANAAGEATAAV378QY373EVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGGFPKSPERAVLVSE430Qy373EUSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGFPKSPERAVLVSE430Qy379ELTVGPPPPPQLANSTSCDPPRDGDPALTPFSAASASKVADTGPPTDRQVOTE434Qy431VTTTSALVKMSVSKSAPRVKMQLQYNCSDDEVLIYPRMPASNKAFVVNNLVSGTGVOTE434Qy431VTTTSALVKMSVSKSAPRVKMQLQYNSSDDENLIYPRMPASNKAFVVNNLVSGTGVOTE434Qy431VTTTSALUVGUPORPTICIRMQLQYNSSDDENLIYPRMPASNKAFVVNNLVSGTGVOTE434Qy431VTTTSALUVGUPORPTICIRMQLQYNSSDDENLIYPRMPASNKAFVVNNLVSGTGVOTE434Qy431VTTTSALUVGUPORPTICIRMQLQYNSSDDENLIYPRMPASNKAFVVNNLVSGTGVOTE434Qy431VTTTSALUVGUPORPTICIRMQLQYNSSDDENLIYPRMPASNKAFVVNNLVSGTGVOTE434Qy431VTTTSALUVGUPORPTICIRMQQTNSSDDENLIYPRMPASNKAFVVNNLVSGTGVOTE434Qy431VTTSALUVGNPORPTICIRMQQTNSSDDENLIYPRMPASNKAFVVNNLVSGTGVOTE434Qy431VTTSALUVGUPORPTICIRMQQTNSSDDENLIYPRMPASNKAFVNNLVSGTVCG4494Qy431VTLMNPTUCTARTUNGCAFFTKAPPPCARSTERARFESKELLITTGGTIVATLLVFT550Qy432VLANVEDSATGLTATRVGCARFSTEPLRFQCAPHAPLGGTMILLIGGTIVASULVFT554Qy555FULMRTYKVHGOOPFGARKTPAPVSSCSOTNGALGFTPRPAPAPAFF556Db555FULMRTYKVHGOOPFGARKTPAPVSSCSOTNGALGFTPTPAPAPAFF556	RESULT 3 US-10-245-107-100 Sequence 100, Application US/10245107 Publication No. US20030068779A1 GENERAL INPORMATION: APPLICANT: Baker,Kevin APPLICANT: Baker,Kevin APPLICANT: Baker,Kevin APPLICANT: Filvaroff, Bilen APPLICANT: Gutey,Austin APPLICANT: Gutey,Austin APPLICANT: Stephan, Jean-Phillippe APPLICANT: Stang, Schman APPLICANT: Stang, Schman APPLICANT: Pong, Sherman APPLICANT: PONG, SICHERTED AND TRANSMEMBRANE POLYPEFTIDES AND NUCLEIC CURRENT FILING DATE: 2002-09-16 PRIOR APPLICATION NUMBER: U0/197942 PRIOR APPLICATION NUMBER: 60/063046 PRIOR APPLICATION NUMBER: 60/063046
Db 260 [RESULT 2 US-10-245-103-100 Sequence 100, Application US/10245103 Fublication No. US2003068778A1 GENERAL INFORMATION: APPLICANT: Baker, Kevin APPLICANT: Falvaroff, Ellen APPLICANT: Filvaroff, Ellen APPLICANT: Guidard, Audrey APPLICANT: Guiney, Austin APPLICANT: Guiney, Austin APPLICANT: Guiney, Austin APPLICANT: Stephan, Jean-Phillippe APPLICANT: Stephan, Jean-Phillippe APPLICANT: Sundy Colin APPLICANT: Sundy Sherman APPLICANT: Fong, Sherman	CURRENT FILING DATE: 202-09-17 FRIOR FILING DATE: 202-09-17 FRIOR FILING DATE: 202-09-17 FRIOR FILING DATE: 202-09-17 FRIOR FILING DATE: 1997-09-17 FRIOR FILING DATE: 1997-09-17 FRIOR FILING DATE: 1997-09-17 FRIOR FILING DATE: 1997-10-24 FRIOR FILING DATE: 1997-10-24 FRIOR FILING DATE: 1997-10-24 FRIOR APPLICATION NUMBER: 60/065027 FRIOR FILING DATE: 1999-01-02 FRIOR FILING DATE: 1999-05-05 FRIOR FILING DATE: 1998-05-02 FRIOR FILING DATE: 1998-05-02 FRIOR FILING DATE: 1998-05-02 FRIOR FILING DATE: 1998-05-02 FRIOR APPLICATION NUMBER: 60/087607 FRIOR APPLICATION NU

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Tue Jun 10 08:57:39 2003	<pre>PHORE FILTING DNT: 1997-10-34 PHORE FILTING DNT: 1997-10-34 PHORE PLACTORY NUMBER: 0707968 PHORE PLACTORY NUMBER: 07079</pre>

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Db 23 ATPSPCPRRCRCOTOSLPLSVLCPGAGLLFVPPSLDRRAAELRLADNFIASVRRRDLANM 82 Qy 76 TGLVDLTLSRNTISHLOPFSFLDLESLRSLHLDSNRLPSLGEDTLRGLVNLQHLIVNNQ 13		Qy 136 LGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWNLHQLSLDHNLLDHIAEGTFAD 195 195	Db 143 LAALAAGALDDCAETLEDLDLSYNNLEQLPWEALGRLGNVNTLGLDHNLLASV-PGAFSR 201 OV 196 LOKLARLDLTSNRLOKLPPDPIFARSQASALTATPFAPPLSFSFGGNPLHCNCELLW 252	202 LHKLARLDMTSNRLTTIPPDPLFSRLPLLARPRGSPASALVLAFGGNPLHCNCELVW	Qy 253 LRRLERDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITOHTHKLLUEGQAATLKCKA 312 Dp 259 LRRLAREDLEACASPPLGGRYFWAVGEEEFVCEPPUVTHRSPLAVPAGRPAALKCKA 318	313 IGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAANAAGEATAMV	Db 319 VGDPEPRVRWVSPQGRLLGNSSRARAFPNGTLELLVTEPGDGGIFTCIAANAAGEATAAV 378	373 EVSI VOLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGGFPFKSPPERAVLVSE ::: : :	379 ELTVGPPPPPQLANSTSCDPPRDGDPDALTPPSAASASAKVADTGPPTDKGVQVTE	QY 431 VTTTBALVRSVSKAPRVKNYOLOTOCODEVLITKMIPASNKAPVNNLVSGIGTULG 490 1:1[1]:1:1[1]:1:1][1]:1] Db 435 HGATNALVONDOPTDGTRAVOJOVNSANDDILVVKMIPASRSFLLTULASGRYYDLC 494	491	495 VLAVYEDSATGLTATRPVGCARFSTEPALRPCGAPHAPFLGGTMIIALGGVIVASVLVPI	QY 551 VILMVRYKVCHEAPSKMAAAVSNVYSQTNGAQPPPPSSAPAGAPP 596 : :: : : : : : : :'	Db 555 FVLLMRYKVHGGQPPGKAKIPAPVSSVCSQTNGALGPTPTPAPPAPEP 602	RESULT 6	, Sequence 100, Application US/10245851 , Publication No. US20030068782A1	, GENERAL INFORMATION: , APPLICANT: Baker, Kevin		; APPLICANT: Goddard, Audrey ; APPLICANT: Grimaldi, J. Christopher	Gurney,Austın Smith,Viçtoria Stenhan Tean-Dhillinne			; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACTOS ENCODING THE SAME	REFERENCE: P3630R1C93	NT FILING DATE: 2002-09-16 NT FILING DATE: 2002-09-16 APPLICATION NUMBER: 10/197942	80/059	FILING DATE: 1997-09-17 APPLICATION NUMBER: 60/06304	; PRIOR FILING DATE: 1997-10-24 ; PRIOR APPLICATION NUMBER: 60/065027 ; PDTOR FILING DATE: 1937-11-10	APPLICATION N FILING DATE:
373 EVSI VQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGGGGGGGPPKSPPERAVLVSE 430 ::: :	431 VTTTSALVKWSVSKSAPRVKMYQLQYNCSDBVLJYRMIPASNKAFVVNNLVSGTGYDLC 490 : : : : :: ::	435 HGATAALVQWPDQRPIPGIRMYQIQYNSSADDILVYRMIPAESRSFLLTDLASGRTYDLC 494	491 VLAMMDDTATTLTATNIVGCAQFFTKADYPQCQSMHSQILGGTMILVIGGIIATLLVFI 550 41 :: 1 : : : ::	596	555 FVLLMRYKVHGGQPPGKAKIPAPVSSVCSQTNGALGPTPTPAPPAPEP 602	SULT 5 -10-245-771-100	Sequence IUU, Application US/10245771 Publication No. US20030068781A1 Generaal Therowarion	APPLICANT: Baker, Kevin APPLICANT: Baker, Kevin APPLICANT: Eaton, Dan			APPLICANT: Stephan,Jean-Phillippe APPLICANT: Watambe.Colin	VT: Wood, William VT: Zhang, Zemin	AFPLICANT: FONG,SNEYMEN TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDE SUCCOING THE SAME	FERENCE: P3630R1C98 APPLCARION NUMBER: US/10/245,771	CURRENT FILING DATE: 2002-09-15 PRIOR APPLICATION NUMBER: 10/197942 DRTOR FILING DATE: 2003-07-18	PPLICATION NUMBER: 60/059114 ILING DATE: 1997-09-17	PPLICATION NUMBER: 60/063046 ILING DATE: 1997-10-24	PPLICATION NUMBER: 60/065027 ILING DATE: 1997-11-10	DR APPLICATION NUMBER: 60/079689 DR FILING DATE: 1998-03-27	LEPLICATION NUMBER: 60/086478 Tiling Date: 1998-05-22 Delitation mimmed: 65-22	TILING DATE: 1998-00.00 TILING DATE: 1998-00 PPL/ICATION NITMERE: 6//08801	FILING DATE: 1998-06-18 APPLICATION NUMBER: 60/090557	FILING DATE: 1998-06-24 APPLICATION WINBER: 60/090689	5-25 5-25 Dr data r	Q ID NOS: 116	LENCTH: 627 TYPE: PRT	ORGANISM: Homo Sapien -10-245-771-100	38.2%; SC 53.1*. Dr	12; Conservative

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-831-846-2.rapb Page 5	APPLICANT: Stephan, Jean-Thillipe PPLICANT: Stephan, Jean-Thillipe PPLICANT: Need-British PPLICANT: Need-British PPLICANT: Need-British PPLICANT: Need-British PPLICANT: Need-British PPLICANT: Need-British PPLICANT: Need-British PPLICANT: Need-British PPLICANT: Need-British PPLICANT: Need-British PPLICANTON NAMES: 3000-001 PPLICANTON NAMES: 3000-001 P
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; PRIOR APPL/ICATION NUMBER: 60/267623 ; PRIOR FILING DATE: 2001-02-09	QY 253 LRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLVLEGQAATLKCKA 312
APPLICATION NUMBE	Db 259 LRRLAREDDLEACASPPALGGRYFWAVGEEEFVCEPPVVTHRSPPLAVPAGRPAALRCRA 318
	0v 313 IGDPSPLTHWVAPDDPLVGNSSPTAVYDNCTLDTFITTSODSGAFTCIAANAAGEATAMV 372
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; PRIOR APPLICATION NUMBER: 09/918585	; APPLICANT: Baker, Kevin
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APPLICANT: Baker,Kevin APPLICANT: Eaton,Dan APPLICANT: Filvaroff,Bilen APPLICANT: Goddard,Audrey APPLICANT: Goddard,Audrey APPLICANT: Grimaldi,J. Christopher APPLICANT: Gurney,Austin APPLICANT: Suth/Victoria APPLICANT: Stephan,Jean-Phillippe APPLICANT: Wood,Milliam APPLICANT: Wood,Milliam	APPLICANT: ZAMAY ZEMLI APPLICANT: FONG,SHERMAN TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILE REFERENCE: P9630RIC15 CURRENT APPLICATION NUMBER: US/10/238,283 CURRENT FILING DATE: 2002-09-09 FRIOR APPLICATION NUMBER: 10/197942 PRIOR APPLICATION NUMBER: 10/197942 PRIOR APPLICATION NUMBER: 10/197942 PRIOR APPLICATION NUMBER: 60/059114 PRIOR APPLICATION NUMBER: 60/059114 PRIOR APPLICATION NUMBER: 60/05916	<pre>PRICR FILING DATE: 1997-10-24 PRICR APPLICATION NUMBER: 60/065027 PRICR FILING DATE: 1997-11-10 PRICR APPLICATION NUMBER: 60/079689 PRICR FILING DATE: 1998-03-27 PRICR FILING DATE: 1998-05-22 PRICR FILING DATE: 1998-05-27 PRICR FILING DATE: 1998-05-27 PRICR FILING DATE: 1998-05-22 PRICR FILING PATE: 1998-05-25 PRICR FILING PATE:</pre>	<pre>PRIOR APPLICATION NUMBER: 60/087607 PRIOR FILING DATE: 1998-06-02 PRIOR PPLICATION NUMBER: 60/089801 PRIOR APPLICATION NUMBER: 60/089801 PRIOR APPLICATION NUMBER: 60/090557</pre>	프로프 걸 듯 폰 폰 -	; TYPE: PRT ; ORGANISM: Homo Sapien US-10-238-283-100 Query Match 38.2%; Score 1563.5; DB 9; Length 627;	Best Local Similarity 53.1%; Pred. No. 1.7e-78; Matches 312; Conservative 88; Mismatches 173; Indels 15; Gaps 16 AVVDACPKYCVCQNLSESLGTLCPSKGLLEVPPDIDRRTVELRLGGNPIIHISRQDFANM AVVDACPKYCVCQNLSESLGTLCPSKGLLEVPPDIDRRTVELRLGGNPIIHISRQDFANM	23 ATPSPCPRKGKCGTQSLPLSVLCFGAGLLEVPPSLLKKAAELKLAUNFTASVKKKULANN 76 TGLVDLTLSRNTISHIQPPSFLDLBSLRSLHLDSNRLPSLGBTLRGLVNLQHLIVNNQ 1 : : : : : :	Db 83 TGLLHLSLSRNTIRHVAAGAFADLRALRALHLDGNRLTSLGEGQLRGLVNLRHLILSNNQ 142 Qy 136 LGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWNLHQLSLDHNLLDHIAEGTFAD 195 ; ; ; ; ; ; ; ; ; ;	Db 143 LAALAAGALDDCAETLEDLDLSYNNLEQLPWEALGRLGNVNTLGLDHNLLASV-PGAFSR 201 Qy 196 LOKLARLDLTSNRLOKLPPDDTFARSOASALTATPFAPPLSFSFGGNPLHCNCELLW 252	Db 202 LHKLARLDMTSNRLTTIPPDPLFSRLPLLARPRGSPASALVLAFGGNPLHCNCELVW 258 Qy 253 LRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLVLEGQAATLKCKA 312 : : :	DD 259 LRRLAREDDLEACASPPALGGRYFWAVGEEEFVCEPPVVTHRSPPLAVPAGRPAALRCRA 318 QY 313 IGDPSPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAANAAGEATAMV 372 . : . : . .
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APPLICANT: Stephan, Jean-Phillippe APPLICANT: Stephan, Jean-Phillippe APPLICANT: Watanbe, Colin APPLICANT: Watanbe, Colin APPLICANT: Panay, Semin APPLICANT: Fong, Semin FILE, REFERENCE: P3630R1C72 CURRENT FILING DATE: 2002-09-16 PRIOR APPLICATION NUMBER: 10/197942 PRIOR APPLICATION NUMBER: 10/197942 PRIOR APPLICATION NUMBER: 10/197942 PRIOR APPLICATION NUMBER: 10/053114 PRIOR APPLICATION NUMBER: 60/053114 PRIOR FILING DATE: 1997-09-114 PRIOR FILING DATE: 1997-09-114 PRIOR FILING DATE: 000-053046	<pre>PRIOR FILING DATE: 1997-10-24 PRIOR FILING DATE: 1997-10-24 PRIOR FILING DATE: 1999-06-05 PRIOR FILING DATE: 1998-03-27 PRIOR FILING DATE: 1998-05-02 PRIOR FILING DATE: 1998-05-02 PRIOR APPLICATION NUMBER: 60/086478 PRIOR FILING DATE: 1998-05-02 PRIOR FILING DATE: 1998-06-03 PRIOR FILING DATE: 1998-06-03 PRIOR RILING DATE: 1998-06-04 PRIOR RILING DATE: 1998-0</pre>	Query Match 38.2%; Score 1563.5; DB 9; Length 627; Best Local Similarity 53.1%; Pred. No. 1.7e-78; Best Local Similarity 53.1%; Pred. No. 1.7e-78; Matches 312; Conservative 88; Mismatches 173; Indels 15; Gaps I AvvDACPKYCVCQNiSESLGTLCPSKGLLFVPPDIDRRTVELRLGURFIHISROPFANM	Qy 196 LQKLARLDLTSNRLGKLPPDPLFARSQASALTATPFAPLS FSFGGNPLHCNCELW 252 Db 202 LHKLARLDMTSNRLTTIPDPL5RS 1
<pre>PRIOR APPLICATION NUMBER: 60/087607 PRIOR PTLICATION NUMBER: 60/089601 PRIOR APPLICATION NUMBER: 60/08901 PRIOR PTLING DATE: 1998-06-10 PRIOR PTLING DATE: 1998-06-24 PRIOR PTLING DATE: 1998-06-24 PRIOR PTLING DATE: 1998-06-24 PRIOR PTLING DATE: 1998-06-25 PRIOR PTLING DA</pre>	Query Match38.2%Score 1563.5; DB 9; Length 627;Best Local Similarity53.1%; Pred. No. 1.7e-78;Matches 312; Conservative 88; Mismatches 173; Indels 15; Gaps 6;Matches 312; Conservative 88; Mismatches 173; Indels 15; Gaps 6;Gy16 AVVDACPKYCVCONLSESLGTLCPSKGLLFVPPDIDRRTVELRGGNFI1HISRQDFANM 75Qy16 AVVDACPKYCVCONLSESLGTLCPSKGLLFVPPDIDRRTVELRADNFIASVRRRILANM 82Oy76 TGLVDLTLSNTTRHOPFSFDLESLRSLHDDSNRLPSLGEDTLRGLVNLOHLIVNNO 135Db23 ATPSPCPRRCRCQTQSLPLSVLCPGAGLLFVPPSLDRRAAELRLADNFIASVRRRILANM 82Oy76 TGLVDLTLSNTTRHVAGAPDLRALRALHDGNRLFSLGEDTLRGLVNLOHLIVNNO 135Db83 TGLHHSLSRNTRHVAGAPDLRALRALHDGNRLFSLGEDTRGLVNLOHLIVNNO 135Db136 LGGTADEAFEDFLLTLEDLLESTNNLHGLPMDSVRRWNLHOLSLDHNLLDHIAEGTFAD 195Db143 LAALAAGALDDCAFFLEDLDLSYNNLEQLPWEALGRLGNNTTLGLDHNLLASV-PGAFRR 201Oy143 LAALAAGALDDCAFFLEDLDLSYNNLEQLPWEALGRLGNNTTLGLDHNLLASV-PGAFRR 201Oy196 LQKLARLDUTSNRLOKLPPDDIFFARSQASALTATPFAPPLSFSFGGNPLHCNCELLM 252Db202 LHKLARLDUTSNRLOKLPPDDIFFARSQLPLLARPRGSPASALVLAFGGNPLHCNCELLW 258Oy253 LRRLERDDFFTCGFOGLKGRYFHVREEFVCEPALTOLLAFULDEGGNPLHCNCELLW 258Oy253 LRRLERDDFFTCGFOGLKGRYFHVREEFYCEPALTOLLAFULDEGGNPLHCNCELLW 258	259 LRRLAREDDLEACASPALGGRYFWAVGELEFVCHPFVYFH'RSPELAVPAGRPAALRCRA 3 313 IGDPSPLHWVAPDDRLVGGRYFWAVGBEEFVCEPFVYFH'RSPELAVPAGRPAALRCRA 3 319 UGDPEPRVRWVSPOGRLLGNSSRARAFVDGTLDIFITTSODSGAFTCIAANAAGEATAMV 3 319 UGDPEPRVRWVSPOGRLLGNSSRARAFVGTLELLVTEPGDGGIFTCIAANAAGEATAMV 3 373 EVSI - VOLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGEPFKSPPERAVLVSE 4 1:::	DD 495 VLAVYEDSATGLTATRPVGCARFSTEPALRPCGAPHAPFLGGTMITALGGVIVASVLVFI 554 QY 551 VILMVRYKVCNHEAP - SKWAAAVSNVYSGTNGAQPPPPSSAPAGAPP 596 i :: :

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	Db 435 HGATAALVQWPDQRPIPGIRMYQIQYNSSADDILVYRMIPAESRFLLTPLASGRYYDLC 494 Qy 491 VLAMDDTATTLATTUYCGCAQFFTKADYPQCQSMHSQLGGGTMLLVGGILVATLLVF1 550 Qy 491 VLAMDDTATTLATTUYCGCAQFFTKADYPQCQSMHSQLGGGTMLLUGGILVATLLVF1 550 Qy 491 VLAWDDTATTLATTUYCGCAQFFTKADYPQCQSMHSQLGGGTMLLUGGILVATLLVF1 550 Db 495 VLAWYEDSATGLTATRPVGCARFSTEPALRPCGAPHAFFLGGTM1LAIGGVIVASVLVF1 554 Qy 551 VLLMVRYKGNHEAP - SKMAAASNVYSQTNGAQPPPPSSAPAGAPP 596 Db 555 FVLLMRYKVHGGQPPGKAKIRPAVSSVCSQTNGAGFPFPAPPAPEP 602	<pre>5 -739-100 12 100. Application U ation No. US200300731 2MTF Baker, Kevin 2MTF Baker, Kevin 2MTF Filvaroff, Elle 2MTF Guinaldi, U 2MTF Gui</pre>	<pre>FRICK FILING DATE: 1998-06.00 FRICK FILING DATE: 1998-06.01 FRICK APPLICATION NUMBER: 60/090557 FRICK FILING DATE: 1998-06-24 FRICK APPLICATION NUMBER: 60/090689</pre>
Qy491VLAMMDDTATTLTATNIVGCAOFFTKADYPQCOSMHSQILGGTMILVIGG11VATLLVF1550Db495VLAVYEDSATGLTATRPVGCARFSTEPALRPCGAPHAPFLGGTMIIALGGVIVASVLVF1554Db495VLAVYEDSATGLTATRPVGCARFSTEPALRPCGAPHAPFLGGTMIIALGGVIVASVLVF1554Qy551VILMVRYKVCNHEAP - SKWAAAVSNVYSQTNGAQPPPSSSAPAGAPP596555FVLLMRYKVHGGOPPGKAKIDAPVSSCSQTNGALGPTPTAPPAPEP602Db555FVLLMRYKVHGGOPPGKAKIDAPVSSCSQTNGALGPTPTAPPAPEP602	APPLICANT: Gurney, Austin APPLICANT: Suith, Victoria APPLICANT: Stephan, Jean-Phillippe APPLICANT: Watanbe, Colin APPLICANT: Watanbe, Colin APPLICANT: Zhang, Zemin APPLICANT: Zhang, Zemin APPLICANT: Fong, Sherman APPLICANT: Fong, Sherman APPLICANT: Fong, Sherman FILLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC TITLE OF INVENTION: ACIDS ENCODING THE SAME FILL REFERENCE: P3630R1C85	CURREN FILING DATE: 2002-09-16 PRIOR FILING DATE: 2002-09-17 PRIOR FILING DATE: 1097-09-17 PRIOR FILING DATE: 1997-09-17 PRIOR APPLICATION NUMBER: 60/065027 PRIOR FILING DATE: 1997-10-24 PRIOR FILING DATE: 1997-10-24 PRIOR FILING DATE: 1997-10-24 PRIOR FILING DATE: 1997-10-24 PRIOR APPLICATION NUMBER: 60/0966478 PRIOR APPLICATION NUMBER: 60/09669 PRIOR APPLICATION NUMBER: 60/099609 PRIOR APPLICATION NUMBER: 60/099609 PRIOR APPLICATION NUMBER: 60/099609 PRIOR APPLICATION NUMBER: 60/099601 PRIOR APPLICATION NUMBER: 60/099601 PRIOR APPLICATION NUMBER: 60/090557 PRIOR APPLICATION NUMBER: 60/090657 PRIOR APPLICATION NUMBER: 60/090659 PRIOR APPLICATION NUMBER: 60/090659 PRIOR APPLICATION NUMBER: 60/090557 PRIOR APPLICATION NUMBER: 60/090659 PRIOR APPLICATION NUMBER: 60/090659 PRIOR APPLICATION NUMBER: 60/090659 PRIOR TILING DATE: 1999-06-22 PRIOR TILING DATE: 1999-06-23 PRIOR APPLICATION NUMBER: 60/090659 PRIOR TILING DATE: 1999-06-23 PRIOR APPLICATION NUMBER: 60/090659 PRIOR PRIOR TILING DATE: 1999-06-23 PRIOR PRIOR TILING DATE: 1999-06-23 PRIOR PRIOR TILING DATE: 1999-06-23 PRIOR PATILICATION NUMBER: 60/090659 PRIOR PRIOR TILING DATE: 1999-06-23 PRIOR PATILICATION NUMBER: 60/090659 PRIOR PALICATION NUMBER: 60/090659 PRIOR PATILING DATE: 1999-06-23 PRIOR PATILING DATE: 1999-06-23 PRIOR PALICATION NUMBER: 60/090659 PRIOR PATILING DATE: 1999-06-23 PRIOR PATE: 1999-06-25 PRIOR PATILING DATE: 1999-06-25 PRIOR PATE: 1999-06-25 PRIOR PRIOR PATE: 1999-06-25 PRIOR PATE: 1999-06-25 PRIOR PRIOR PATE: 1999-06-25 PRIOR PATE: 1999-06-25 PRIOR PRIOR PRIOR PATE: 1999-06-25 PRIOR PRIOR PRIOR PATE: 1999-06-25 PRIOR PRIOR PRIOR PRIOR PATE: 1999-06-25 PRIOR PRIOR PRIO	OY 76 TGLVDLTERNTISHIOPFSFLDLESLRSLHJDNRLDSREDTLGEDTLGENTURGUNUON 0135 11:1111111111111111111111111111111111

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9 142 259 LRRLAREDDLEACASPPALGGRYFWAVGEEBFYCEPPVVTHRSPPLAVPAGRPAALRCRA 318 319 VGDPEPRVRWVSPQGRLLGNSSRARAFPNGTLELLVTEPGDGGIFTCIAANAGEATAAV 378 435 HGATAALVQWPDQRFIPGIRMYQIQYNSSADDILVYRMIPAESRSFLLTDLASGRTYDLC 494 491 VLAMWDDTATTLTATNIVGCAQFFTKADYPQCQSMHSQILGGTMILVIGGIIVATLLVFI 550 TGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGEDTLRGLVNLQHLIVNNNQ 135 LGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVNLHQLSLDHNLLDHIAEGTFAD 195

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QV 2	293 OHTHKLLVLEGQA-ATLKCKAIGDPSPLJHWVAPD-DRLVGNSSRTAVYDNGTLDIFI 348	дD	363 DLDHNEISGTIEDTSGAFTGLDNLSKLTLFGNKIKSVAKRAFSGLESLEHLNLGENAIRS 422
		Z	246CNCELLWLRLERDDDLETCGSPGGLKGRYFW 277
		5 2	
	T'ISQUSGATICIAANAAGEATANVEVSIVQLPHUSNSISKIAPPKNSKUSUIIGSSKISKG		
DD 4	486 ITPREGGLYTCIATNLVGADLKSIMIKV	λ'n	
QY 4	409 GGGSGGGEPPKSPPERAVLVSEVTTTSALVKWSV-SKSAPRVKMYQLQYNCSDDEVLIYR 467	qu	483 SVLPDSFVCDDFPKPQIITQPETTMAVVGKDIRFTCSAASSSSPMTFAWKKDNEVLANA 542
5 qu	514GFVPQDNNGSLN1KIRDIRANSVLVSWKANSKILKSSVKWTAFVKTEDSQAAQSA 569	QV	294HTHK 297
QY 4	468 MIPASNKAFVVNNLVSGTGYDLCVLAMWDDTATTLTATNIVGCAQFFTKADYPQCQS 524	qu	543 DMENFAHVRAQDGEVMEYTTILHLRHVTFGHEGRYQCIITNHFGSTYSHKARLTVNVLPS 602
qq	570 RIPSDVKVYNDTHLKPSTEVKICIDIPTIYQKSKKQCVNVTTKSLEHDGKENGK 623	QY	298LLVLEGQAATLKCKAIGDPSPLIHWVAPDRLVGNS 333
QY	525 MHSQILGGTMILVIGGIIVATLLVF 549	qu	603 FTKIPHDIAIRTGTTARLECAATGHPNPQIAWQKDGGTDFPAARERRMHVMPDD 656
Db da	624 SHTVPVACVGGLLGIIGVMCLF 645	QV	334 SRTAVYDNGTLDIFITTSODSGAFTCIAANAAGEATAMVEVSIVOLPHLSNSTSRTA 390
		Db	657
A58532		QY	391 PPKSRLSDITGSSKTSRGGGGGGGGEPPKSPPERAVLVSEVTTTSALVKWSVSKSAPRVK 450
C;Species:		qu	699 VPLE
C;Date: 11 C;Accession	-Apr-1997 #sequence_revision 11-Apr-1997 #text_cnange US-NOV-1999 . n: A58532	QY	451 MYQLQYNCSDDBVLIYRMIPASNKAFVVNNLVSGTGYDLCVLAMWDDTAT-TLTATNIVG 509
R;Suzuki, J. Biol. Cl		дD	: : : : :
A; Title: c) A: Reference	DNA cloning of a novel membrane glycoprotein that is expressed specifically in e number: A58532: MUID:96394313: PMID:8798419	QV	510 CAQFFTKADYPQCQSMHSQILGGTMILVIGGIIVATLLVFIVILMVRYKVCNHEAPS 566
A; Accession	n: A58532 preliminary: translated from CR/EMBL/DDR.I	qO	3 TERAHSOLSILPT
A;Molecule	type: mRNA	ł	
A;Residues A:Cross-rei	: 1-1091 <suz> ferences: GB:D79572; NID:q1545806; PIDN:BAA11416.1; PID:q1545807</suz>	σy	
C; Superfam	ily: leucine-rich alpha-2-glycoprotein repeat homology; proteoglycan amino-ter main: rroteorlycan amino-terning homology / 2014	рb	824SEEYSVTNTDETIVPPDVPSYLSSQGTLSDRQETVVRTEGGHQANGHIESNGVC 877
F; 71 - 94 / DOI	A (Q	608 LLDFTASLARASDSSSSSLGSGEAAGLGRAPWRIPPSAPR-PKPSLDRLMGAFAS 662
F; 118-141/1 F; 118-141/1	omain: leucine-rich aipha-2-giycoprotein repeat nomology <_LKK2> Domain: leucine-rich alpha-2-giycoprotein repeat homology <_LRR3>	дD	878 LRDPSLFPEVDIHSTTCROPKLCVGYTREPWKVTEKADRTAAPHTTAHSGSAVCSDCS 935
F;142-165/i F;166-189/I	Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr4> Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5></lrr5></lrr4>	QV	663 LDLKSQRKEBLLDSRTPAGRGAGTSARGHHSDREPLLGPPAARARSLLPLPLEGKAKRSH 722
F;191-213/i F;214-237/1	Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr6> Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr7></lrr7></lrr6>	дa	936 TDTAYHPQPYPRDSGQP-GTASSQELRQHDREYSPHHPYSGTADGSH 981
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F;286-309/1 E:310-333/1	Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr10> Domain: leucine-rich alpha-2-chycoprotein reneat homology <lr11></lr11></lr10>	ЧU	: : : : : : : : : :
F; 334-357/1	Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr12></lr12>		
F:358-381/	טסתפות: leucine-ricn alpha-2-glycoprotein repeat nomology אנאנו>> Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr14></lr14>	22	
F;409-432/ F;440-485/1	F/409-432/Domain: leucine-rich alpha-2-glýcoprotein repeat homology <lr15> F/440-485/Domain: proteoglycan carboxyl-terminal homology <pch></pch></lr15>	qu	1015 WTL 1017
Query Ma	tch 9.0%; Score 368; DB 2; Length 1091;	RESULT 3	
Best Local S Matches 205	imilarity 21.3%; Pred. No. ; Conservative 92; Mismatu	146266 hypotheti	al protein DKF2p761A179.1 - human (fragment)
QV	30 LSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNFIIHISRQDFANMTGLVDLT 82	C; Species C; Date: 0	Homo sapiens (wan) Feb-2000 #sequence_revision 04-Feb-2000 #text_change 04-Feb-2000
qq	18 LSRSULTLRLSKNRITQLPVKAFKLPRLTQLDLNRNRILLIEGLTFQGLDSLEVLR 243	C;Accessi R;Blum, H	Mewes, H.W.
ov	83 LSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGEDTLRGLVNLQHLIVNNNQLGGIADE 142	A;Referen	squence parapase, panuary z
qu	244 LQRNNISRLTDGAFWGLSKWHVLHLEYNSLVEVNSGSLYGLTALHQLHLSNNSISRIQRD 303	A; Accessi A; Status:	A;Accession: T46266 A;Status: Prelimiary
ov	143 AFEDFLLTLEDLDLSYNNLHGLPWDSVRRWVNLHQLSLDHNLLDHIAEGTFADLQKLARL 202	A; Morecur A; Residue	1 1-421 <aaa></aaa>
qa	304 GW-SFCOKLHELILSFNNLTRLDEESLAELSSLSILRLSHNAISHIAEGAFKGLKSLRVL 362	A; Cross-r A; Experim	rerences: EMBU.44134451 ental source: ddult amygdala; clone DKFZp761A179
à	203 DLTSNRLØKLPPDPIFARSQASALT-ATPFAPPLSFSFGGNPLH- 245	C;Genetic A;Note: D	: FZD761A179.1

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	59 LGGNFITHISRQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLKSLHUDSKKEPSLUGE 11
	TOGUNUTATIVE AND THE A
DD 282APMBCGA 231	119 TLRGLVNLOHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVKKWVNLHQL : : : :
A36665 slit protein 1 precursor - fruit fly (Drosophila melanogaster)	LDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFAKSQASALIAIFAFFLSFS
C;Species: Drosopnila melanogaster C;Date: 30-Apr-1991 #sequence_revision 30-Apr-1991 #text_change 02-Aug-2002	
C;Accession: A36665; A31640; S13523 R:Rothberg, J.M.; Jacobs, J.R.; Goodman, C.S.; Artavanis-Tsakonas, S.	QY 239 FGGNPLHCNCELLMLRRLERDDDLETCGSPGGLKGRYEWHVREEFFVCEPPLITQH 294
Genes Dev. 4, 2169-2187, 1990 A.Title: alit: an extracellular protein necessary for development of midline glia and cd	Db 234CDCHLSWLSRFLRSATRLAPYTRCQSPSQLKGQNVADLHDQEFKCSGLTEH 284
	OY 295 THKLLVLEGOAATLKCKA 312
A,Accession: Aloool A,Stetus: preliminary A .molecule type: mRNA	Db 285
A;residues: 1-1480 -ROT> A;residues: 1-1480 -ROT> 	
A;Cross-references; deix333939; Multiger, Luxerences, Fighter, 2.; Artavanis-Teakonas, S.	RESULT 7 T13953
Cell 55, 1047-1059, 1988 A;Title: slit: An EGF-honologous locus of D. melanogaster involved in the development of	MBGF5 protein - rat N;Alternate names: slit;protein homolog
A;Reference number: A31640; MULD:890//533; FMLD:2144450 A;Accession: A31640	C;Species: Rattus norvegicus (Norway rat) C.hare: 20-Sep-1999 #sequence revision 20-Sep-1999 #text_change 16-Aug-2002
A;Molecule type: DNA A;Residues: 881-1182,'G',1185-1404,'GT',1463-1464,'YHA' <ro2></ro2>	C,Accession: T13953
A;Cross-references: GB:M23543; NID:g340939; PID:g514357	ء بر
A;Gene: FlyBase:sli	
0	A,Accession: T13953
C;Superfamily: fruit fly slit protein; BGF homology; leucine-rich alpha-2-91Ycoprotein 1 C.Konnerde: alternative splicing: growth factor	A;Molecule type: mRNA
riceywords, arctinectry of arctinecterminal homology <pah1> F/66-91/Domain: proteoglycan amino-terminal homology <pah1> </pah1></pah1>	A;Residues: 1-1523 <nak> A;Cross-references: EMBL:AB011531; NID:g3449291; PIDN:BAA32461.1; PID:g3449292</nak>
Fil01-124/Domain: feucine-rich alpha-2-glycoprotein repeat homology <lrr2> Fil25-148/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr2></lrr2></lrr2>	
F;149-172/Domain: leucine-rich alpha-2-glycoprotein repeat nomology Aboas F;173-196/Domain: leucine-rich alpha-2-glycoprotein repeat homology ALR4>	C;Superfamily: fruit fly slit protein; EGF homology; leucine-rich alpha-2-91Ycoprotein r
7;197-220/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> 5.332-332/Domain: protecniycan carboxy1-terminal homology <pcs1></pcs1></lrr5>	6.38;
F;228-212/Domain: proteogiycan autooya curminal homology <284-313/Domain: proteogiycan auto-terminal homology <2842>	Best Local Similarity, 27.3%; Pred. No. 9.95-09; Matches 74; Conservative 35; Mismatches 94; Indels 68; Gaps 4;
F;323-346/Domain: leucine-rich alpha-2-14ycoprotein repeat homology <1587>	ACPKYCVCONLSESLGTL
F;371-394/Domain: leucine-rich alpha-2-glycoprotein repeat nomology <lark8> F;395-418/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr9></lrr9></lark8>	
F,419-442/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr10></lr10>	Z A OCEOHOLOCOLONIA C
F;512-537/Domain: proteoglycan amino-terminal homology <pah3></pah3>	
F,547-571/Domain: leucine-rich alpha-2-giycoprotein repeat homology <lr12> F,572-595/Domain: leucine-rich alpha-2-giycoprotein repeat homology <lr12></lr12></lr12>	
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F,651-695/Domain: proteoglycan carboxyl-terminal homology <pcs3></pcs3>	Db 395 RVNTFQD
F;//08-/35/Doumain: picceogrycan amino commercia concersionary allocation size of the second size of the sec	OV 200 ARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLSFSFGGNPLHCNCELLWLRRLERD 259
F;767-790/Domain: leucine-rich alpha-2-giycoprotein repeat homology ALR17> F;791-814/Domain: leucine-rich alpha-2-giycoprotein repeat homology ALR17>	430
F;815-838/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lki8> = osc_sos/homain: mynteorlyran rarboxyl-terminal homology <pcs4></pcs4></lki8>	
F;1029-39//Dumain: BGF homology <bgf2> F;1058-1061/Domain: BGF homology <bgf2> F;1068-1099/Domain: BGF homology <bgf2></bgf2></bgf2></bgf2>	QY 260 DDLETCCSPGGIKGRYEWHVREBEFVC 286 2 : : : : : : : : : : : : :
rills-illag/Domain: Bor Nomoingy Sectors of a construction of the	
Query March 6.4%; Score 200, D2 2, Dengen 2007 Best Local Similarity 28.0%; Pred. No. 5.2e-09; Marches 89; Conservative 39; Mismatches 102; Indels 88; Gaps 11;	RESULT 8
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Db 51 GGLGSVGIHIPGGGVGVITEARCPRVCSCTGLNVDCSHRGLTSVPRKISADVERLE 106	r28714
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submitted to the EMBL Data Library, August 1997 A;Description: The sequence of C. elegans cosmid T21D12. A;Reference number: 220514	A;Accession: T28715 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA
A;Accession: T28714 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA	A;Residues: 1-1355 <wds> A;Cross-references: EMBL:AFO16687; PIDN:AAC48095.1; GSPDB:GN00022; CESP:T21D12.9b A;Experimental source: strain Bristol N2; clone T21D12</wds>
A;Residues: 1-789 <woe> A;Cross-references: EMBL:AF016687; PIDN:AAC48096.1; GSPDB:GN00022; CESP:T21D12.9a A;Experimental source: strain Bristol N2; clone T21D12 C;Genetics:</woe>	C;Genetics: A;Gene: CESP:T21D12.9b A;Map position: 4 A;Introns: 384/2; 84/2; 204/2; 275/2; 351/2; 519/3; 615/1; 714/1; 758/2; 786/3; 84
A;Gene: CESP:T21D12.9a A;Map position: 4 A:Introns: 38/2; 84/2; 132/2; 204/2; 275/2; 351/2; 519/3; 615/1; 714/1; 758/2	erity 21.3%; Score 254; DB 2; Length 1355; arity 21.3%; Pred. No. 1.8e-08; Onservative 75; Mismathes 204; Indels 204; Gans 25;
Query Match 6.2%; Score 254; DB 2; Length 789; Best Local Similarity 21.3%; Pred. No. 8.5e-09; Matches 131; Conservative 75; Mismatches 204; Indels 204; Gaps 25;	56 ELRLGGNFIIHISRODFANMTGLVDLTLSRNTISHIOPSFFLDLESLRSLHLDS10
QY 56 ELRLGGNFIIHISRQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDS 109 : :1 10 :1 11 DD 93 KLDLASNSITDIGTDHFSSFNTLVTLKLARNHITTLNQFSFSRLRKLESLDLTRNMIREV 142	DD B3 KUDLASNSTIDIGTDHFSSFNILVTLKLAKNHITILNQFSFSKUKKLESUDLTKNMIKEV 142 QY 110NRLPSLGEDTLRGLVNLQHLIVNNNQLGGIADEAFEDFLLTL 151 : :: :: :: :: :: :
-	Db 143 RFLAFNQLPSLQNVSLARNDVYRLDDGMFYACEGLKHLNLSTNRVQAVT-EGWMFGLTSL 201 Qy 152 EDLDLSYNNLHGLPWDSVRRWVNLHOLSLDHNLLDH 187
152 EDLDLSYN	Db 202 EVLDLSYNQIQSFHISSWSHTPKLKWLSLHSNRIQSLPSGSFRVLRQLEELILSANSIDS 261 Qy 188 IAEGTFADLQKLARLDLTSNRLQKLPPDPIFAR 220
DD 202 EVLDLSTNQLQSFHISSWSHIPKLKWLSLHSNRIQSLPSGSFRYLRQLEELLLSANSIDS 261 QY 188 IAEGTFADLQKLARLDLTSNRLQ	262 LHKFALVGMSSLHKLDLSSNTLAVCVEDGAVLYNTSMPFLRSLRFTNNQLRVIPKRAFER 321 OV 221 SOASALTATPFAPPLSF5FGGNPLHCNCELLMLRRLERDDD 261
Db 262 LHKFALVGMSSLHKLDLSSNTLAVCVEDGAVLYNTSMPFLRSLRFTNNQLRVIPKRAFER 321 Ov 221 SOASALTATPFAPPLSFSFGGNDLHCNCELLMLRREDDD 261	322 FPALEELDLTDNPIATIHPEAFEPLELKRLVMNSSSILCDCQISWLASWIYRLKLDKSSI
322 FPALEBLDLTDNPIATIHPEAFEPLELKRLVMNSSSILCDCQISWLASWIYRLKLDKSSI 3	QY 262. LETCGSPGGLKGRYFWHVREBEFVCEPPLITQHTHKLLVLEGQAATLKCKAIGDPS 317 :
QY 262 LETCGSPGGLKGRYFWHVREEEVCEPPLITQHTHKLLVLEGQAATLKCKAIGDPS 317 :	318 PL-IHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGA 35
Qy 318 PL-IHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGA 356 : : 1: Db 441 PLSTEWRVMENGQPRVLVQDSATFLSINRTAVV-NCTFDERELAAAELLLDNVAMTDNSE 499	KTAVV-NGTFUEKELAAAELLLUNVAMTUNSE 49 NSTSRTAPPKSRLSDITGSSKTSRGGGGGGGG 41
FTCIAANAAG-EATAMVEVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGSGGG ::: YOCVAANRESGISFSTIVKLOVVOAPKET	Db 500 YQCVARNRFGSDFSTHVKLQVYQAFKFT
416 EPPKSPPERAVLVSEVTTTSALVKWSVSK-SAPRVKMYQLQYNCSDDEVLIY 4 5 5 5 5 5 5 5 5 5 5	Db 528YTPEDMPLLVGQTAKPLCAATGTPRPEIKWAFEQTPFPAAEARRLYVTPNDDHI 581 . Ov 467 RMIPASNKAPVVNNLVSGTGYDLCVLANWDDTATTLTATNIVGGAOFFTK 516
528YTPEDMPLLVGGTAKFLCAATGTPRPEIKWAFEQIPFPAAEARRLYVTPNDDHI 5	582YIMNVTKEDQGAYTCHATNVAGQTQASANLIVFENFF 61
DD 582YIMNVIRN-VORUPOLICYLAMMUDIATTEIAINYYGGAQFFIK 516 :::	517 ADYPOCOSMHSQIL
QY 517 ADYPQCQSMHSQIL 530 : :: Db 619 -HYPESPDLSPMLI 631	619 10
SULT 9 8715	JC1282 insulin-like growth factor-binding protein acid labile chain precursor - rat C.Species: Rature norvegicus (Norway rat) C.Dspecies: 101.5eo-1993 #rexr change 21-Jul-2000
<pre>hypothetical protein T21D12.9b - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 29-Oct-1999</pre>	
	A; Title: Molecular cloning of the acid-labile subunit of the rat insulin-like growth fac A; Reference number: JC1282; MUID:93038676; PMID:1384485
auomitteu to the ambu data bibitaty, August 1997 A:Description: The sequence of C. elegans cosmid T21D12. A.Reference number: 220514	A;Accession: ULIE82 A;Molecule type: mRNA A;Residues: 1-603 <dai></dai>

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F;387-410/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr14>F;411-434/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr15>F;415-458/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr15>F;459-488/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr17>F;483-506/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr15>F;450-488/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr18>F;450-529/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr18>F;607-529/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr18>Rest Local Similarity5.9%Score 241.5; DB 2; Length 605;Best Local Similarity29.7%; Pred. No. 3.9e-08;Matches76; Conservative 41; Mismatches 106; Indels 33; Gaps 4;</lr18></lr18></lr18></lr15></lr17></lr15></lr15></lr14>	Qy 20 ACPKYCVC - QNLSESLGTLCPSKGLLFVPPDIDRRTVELRIGGNFIHISROPFANWTG 77 Db 40 ACPAACVCSYDDDADELSVFCSSRNLTRLPDGVPGGTQALMLDGNNLSSVPPAAFQNLSS 99 Qy 78 LVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSKLGEDTLRGLWLCHLJVNNNOLG 137 Qy 78 LVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSKLGEDTLRGLWLCHLJUNNNOLG 137 Db 100 LGFLNLQGGGLGSLEPQALLGLENLCHHLLERNOLRSLALGTFAHTPALASLGISNNRLS 159 Qy 138 GIADEAFEDFLLFLEPUDLSYNNLHGLENULCHHLLERNOLRSLALGTFAHTPALASLGISNNRLS 159 Qy 138 GIADEAFEDFLLFLEPUDLSYNNLHGLENULCHHLLERNOLRSLALGTFAHTPALASLGISNNRLS 159	Db 160 RLEDGLFEG [LGSLWDLNLGWNSLAVLPDAAFRGLGSLRELVLAGNRLAVLQPALFSGLA 218 Qy 198 RLARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLSFSFGGNPLHCNCELLWLRRLE 257 Qy 198 ELRELDLSNRLQKLPPDPIFARSQASALTATPFAPPLSFSFGGNPLHCNCELLWLRLE 257 Qy 219 ELRELDLSNALRAIXANVFVOLPRLQKLY 248 Qy 228 RDDDLETCGSPGGLKG 273 Qy 258 RDDDLETCGSPGGLKG 273 Qy 258 RDDDLETCGSPGGLKG 273 Qy 258 LDDLETCGSPGGLKG 273 Qy 258 RDDLETCGSPGGLKG 273	RESULT 12 T42626 secreted leucine-rich repeat-containing protein SLIT2 - mouse (fragment) secreted leucine-rich repeat-containing protein SLIT2 - mouse (fragment) NAlternate names: neurogenic extracellular slit protein C;Species: Mus musculus (house mouse) C;Species: Mus musculus (house mouse) C;Accession: T42626 C;Accession: T42626 R;Holmes, G.P.; Negus, K.; Burridge, L.; Raman, S.; Algar, E.; Yamada, T.; Little,	<pre>Mech. Dev. 79, 5/-72, 1998 A;Title: Distinct but overlapping expression patterns of two vertebrate slit homologs A;Ritle: Distinct but overlapping expression patterns of two vertebrate slit homologs A;Reference number: 222177; MUID:99279238; PMID:10349621 A;Reference number: 222177; MUID:99279238; PMID:10349621 A;Reference type: mNA A;Residues: 1-1025 RMNA A;Residues: 1-1025 RMDL A;Cross-references: EMBL:AF074960; NID:94151258; PID:94151259; PIDN:AAD04345.1 C;Genetics: A;Gene: Silt2 C;Superfamily: fruit fly slit protein; EGF homology; leucine-rich alpha-2-glycoprotein</pre>	Query Match5.8%; Score 237; DB 2; Length 1025;Best Local Similarity20.4%; Pred. No. 1.6e-07;Matches 86; Conservative 60; Mismatches 110; Indels 166; Gaps 10;Qy20 ACPYYCVCONLSESLGTLCPSKGLLFVPDIDRRTVELRL59	Db 1
eferences: GB:S46785; NID:g258002; PIDN:AAB23770.2; PID:g5705934 he authors translated the codon AAG for residue 63 as Arg, AAA for residu mily: leucine-rich alpha-2-glycoprotein repeat homology main: signal sequence #status predicted «SIG» Product insulin-like growth factor binding protein, acid labile chain #s (Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr> formain: leucine-rich alpha-2-glycoprotein repeat homology <lrr> formain repeat homology <lrr formain="" repea<="" td=""><td>5 7 4 1</td><td>QY 111 RLPSLGEDTLRGLVNLQHLJVNNNQLGGIADEAFEDFLLFLEDLDLSYNNLHGLPWDSVR 170 Db 133 RLNLAVGLFTHTPSLASLSLSSNLLGRLEEGGLFQG-LSHLWDLNLGWNSLVLPDTVFQ 191 QY 171 RNVNLHQLSLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATP 230 Db 171 RNVNLHQLSLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATP 230 CY 171 RNVLHQLSLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATP 230 Db 192 GLGNLHELVLAGKNTTYLQPALFCGLGELRELDLSNRLQKLPPDPIFARSQASALTATP 242 QY 231 FAPPLSFFGGNPLHCNCELLMLRRLERDDLETGSFGGLKG-RYFWALRSVHLPP 242 QD 231 FAPPLSFFFGGNPLHCNCELLMLRRLERDDLETGSFGGLKG-RYFWALRWLDLSHNYAGL 281</td><td>281 - EEEFVCEPPLITQHTHKL 282 MEDTF PGLLGLHV L 340 DN GTLDIF 311 ERTFEGLGQLEVLTLNDNQ</td><td>r complex acid-labile chain precursor - human bunit (ALS) sion 31-Dec-1993 #text_change 05-Nov-1999 ato, T.; Dai, J.; Wood, W.I. expression of the acid-labile subunit of the in</td><td></td><td><pre>A;Experimental source: liver A;Experimental source: liver A;Note: sequence extracted from NCBI backbone (NCBIP:110171) A;Note: sequence extracted from NCBI backbone (NCBIP:110171) F;75-98/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr1> F;95-122/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr2> F;132-146/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr3> F;137-194/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;137-194/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;137-194/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;231-232/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;231-2342/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;231-236/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;237-230/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;237-230/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;257-230/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr10> F;257-230/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr10> F;357-330/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr10> F;357-357/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr10> F;357-357/Domain: leucine-rich alpha-2-glycoprotein repeat homo</lr10></lr10></lr10></lr10></lr10></lr10></lr10></lr10></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr3></lrr2></lrr1></pre></td></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr></lrr>	5 7 4 1	QY 111 RLPSLGEDTLRGLVNLQHLJVNNNQLGGIADEAFEDFLLFLEDLDLSYNNLHGLPWDSVR 170 Db 133 RLNLAVGLFTHTPSLASLSLSSNLLGRLEEGGLFQG-LSHLWDLNLGWNSLVLPDTVFQ 191 QY 171 RNVNLHQLSLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATP 230 Db 171 RNVNLHQLSLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATP 230 CY 171 RNVLHQLSLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATP 230 Db 192 GLGNLHELVLAGKNTTYLQPALFCGLGELRELDLSNRLQKLPPDPIFARSQASALTATP 242 QY 231 FAPPLSFFGGNPLHCNCELLMLRRLERDDLETGSFGGLKG-RYFWALRSVHLPP 242 QD 231 FAPPLSFFFGGNPLHCNCELLMLRRLERDDLETGSFGGLKG-RYFWALRWLDLSHNYAGL 281	281 - EEEFVCEPPLITQHTHKL 282 MEDTF PGLLGLHV L 340 DN GTLDIF 311 ERTFEGLGQLEVLTLNDNQ	r complex acid-labile chain precursor - human bunit (ALS) sion 31-Dec-1993 #text_change 05-Nov-1999 ato, T.; Dai, J.; Wood, W.I. expression of the acid-labile subunit of the in		<pre>A;Experimental source: liver A;Experimental source: liver A;Note: sequence extracted from NCBI backbone (NCBIP:110171) A;Note: sequence extracted from NCBI backbone (NCBIP:110171) F;75-98/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr1> F;95-122/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr2> F;132-146/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr3> F;137-194/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;137-194/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;137-194/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;231-232/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;231-2342/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;231-236/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;237-230/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;237-230/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lrr5> F;257-230/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr10> F;257-230/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr10> F;357-330/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr10> F;357-357/Domain: leucine-rich alpha-2-glycoprotein repeat homology <lr10> F;357-357/Domain: leucine-rich alpha-2-glycoprotein repeat homo</lr10></lr10></lr10></lr10></lr10></lr10></lr10></lr10></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr5></lrr3></lrr2></lrr1></pre>

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93A;Title: The cloning and expression of the baboon acid-labile subunit of the insuli93A;Feference number: JC5239; MUD:97040714; PMID:888602732A;Contents: liver32A;Accession: JC523932A;Accession: JC523948A;Accession: JC523948A;Accession: JC523948A;Accession: JC523950A;Accession: JC523948A;Accession: JC523948A;Accession: JC523959A;Accession: JC53969A;Accession: JC523960A;Accession: JC523960A;Accession: JC523961A;Accession: JC523962A;Accession: JC523963A;Accession: JC523964A;Accession: JC523965A;Accession: JC523965A;Accession: JC523966A;Accession: JC523967A;Accession: JC523969A;Accession: JC525KNLTRLPDGFPGGTQALWLDSNNLSSIPPAAFRNLSS69A;AccessIPAAFRNLSS69A;AccessIPAAFRNLSS69A;AccessIPAAFRNLSS69A;AccessIPAAFRNLSS69A;AccessIPAAFRNLSS69A;AccessIPAAFRNLSS69A;AccessIPAAFRNLSS69A;AccessIPAAFRNLSS69A;AccessIPAAFRNLSS69A;AcpATCACSYDEVNELSVFCSSKNLTRLPDGFPGGTQALMELSVFCSSFPPAAFRNLSS69A;AcpATCACSYDEVNELSVFCSSKNLTRLPDGFPGGTQALMELSVFCSSFPPAAFRNLSS69A;AcpATCACSYDEVNELSVFCSSKNLTRLPDGFPGFPAAFRNLSS69A;AcpATCACSYDEVNELSVFCSSKNLTRLPDGFPGFFPAAFRNLSS	ated from b carboxyl- l;	<pre>13, 3438-3447, 1994 12, 3438-3447, 1994 ance number: s46224; MUID:94341255; PMID:8062820 sion: S46224 sion: S46224 le type: mRNA le type: mRNA les type: peroxidasin; myeloperoxidase homology , PMH4 POnmain: myeloperoxidase homology , MPX, MATCH MATCH MATCH les type: manueloperoxidase homology , MPX, lonain: myeloperoxidase homology , MPX, MATCH les type: manueloperoxidase homology , MPX, lonain: myeloperoxidase homology , MPX, MATCH les type: manueloperoxidase homology , MPX, les type: manueloperoxidase homolo</pre>	(4 UNETY MACCI 5.7/*; SCORE 22.2; UB 2; LENGEN 1255; (47 Best Local Similarity 23.5%; Prede No. 5.5e-07; Bast Local Similarity 23.5%; Prede No. 5.5e-07; (47 Matches 102; Conservative 56; Mismatches 193; Indels 83; Gaps 13 (47 Qy 1 METLLGGLLAFGMAFAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELR 58 (1) 1 1 (1) 1 1 (1) 1 1 (1) 1 1 (2) 59 LGGNFILHLSRQPFANMTGLVDLTLSRNTSHIDFFFLDLESLRSLHLDSNRLPSLGB 118 (2) 59 LGGNFILHLSRQPFANMTGLVDLTLSRNTSHIDFFFLDLESLRSLHLDSNRLPSLGB 118	Db 61 FNHIEELPANAFSGLAQLTTLFLNDNELAYLQDGALNGLTALRFYYLNNNLLSRLPAT 118 Qy 119 TLRGLVNLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWYNLHQL 178 Qy 119 IFQRMPRLEGIFLENNDIWQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWYNLHQL 178 Db 119 IFQRMPRLEGIFLENNDIWQLPAGLF-DNLPRLNLLIMYNNKLTQLPVDGFNRLNNLKRL 177 Qy 179 SLDHNLLDHIAEGTFADLQKLARLDLFSNRLQKLPPDFIFARSQASALTATPFAPPLSFS 238 Db 178 RLDGNAID Db 178 RLDGNAID Db 178 RLDGNAID
Db 234 VRCSNKGLKVLPKGIPKDVTELYLDGNQFTLVPKELSNVKHLTLIDLSNNRISTLSNQXF 29 QY 194 ADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATPFA 23 Db 294 SNMTQLLTLLISVNRLRCIPPRTFDGLKSLRLLSLHGNDISVVPEGAFNDLSALS 34 QY 233 PPLSFSFGGNPLHCNCELLMLRRLERDDLETCGSPGGLKGRYFWHVREEFVCEP 34 QY 233 PPLSFSFGGNPLHCNCELLMLRRLERDDLETCGSPGGLKGRYFWHVREEFVCEP 34 QY 233 PPLSFSFGGNPLHCNCELLMLRRLERDDLETCGSPGGLKGRYFWHVREEFVCEP 36 QY 233 PPLSFSFGGNPLHCNCELLMLRRLERDDLETCGSPGGLKGRYFWHVREEFVCEP 36 QY 233 PPLSFSFGGNPLKCCELMLRRLERDDLETCGSPGGLKGRYFWHVREEFVCEP 36 QY 239 PL_SFSFGGNPLKCCELMLRRLERDDLETCGSPGGLKGRYFWHVREEFVCEP 36 Db 406 PM 407 37	<pre>SULT 13 SULT 13 SULT 13 SULT 13 SULT 13 SUE Condcradherin precursor - bovine Alternate names: 38K leucine-rich protein Species: Bos primigenius taurus (cattle) Species: Dome 26, 21547-21554, 1994 Title: The structure of a 38.kDa leucine-rich protein (chondroadherin) i Reference number: A53860; MUID:94342341; PMID:8063792 Accession: A39860 Status: preliminary Molecule type: mRNA Residues: 1-361 cNB018; NID:9470671; PIDN:AAA21330.1; PID:9470672 Superfamily: leucine-rich alpha-2-glycoprotein repeat homology; proteogl Xeywords: disulfide bond 300-346/Domain: proteoglycan carboxyl-terminal homology ePCH> Conserferences: G8:V08018; NID:9470671; PIDN:AAA21330.1; PID:9470672 Superfamily: leucine-rich alpha-2-glycoprotein repeat homology; proteogl Xeywords: disulfide bond 300-346/Domain: proteoglycan carboxyl-terminal homology ePCH> Conservative 42; Mismatches 122; Indels 100; Gaps Best Local Similarity 25.44; Pred. NO. 4.4e-08; Best Local Similarity 25.</pre>		146	<pre>Db 301NNPWKCTCQLRGLRRWLEAKTSRPDATCASPAKFRGQHIRDTD 343 UC5219 JC5239 insulin-like growth factor acid-labile chain - baboon c'species: Papio sp. (baboon) C'species: 17-Apr-1997 #sequence_revision 09-May-1997 #text_change 09-May-1997 C'Accession: JC5239 Ricelhanty, P: Baxter, R.C. Biochlant, P: Res. Comun. 227, 897-902, 1996</pre>

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<pre>526 HSOILGGTMILVIGGIIVATLLVFIVILMVRYKVC 526 HSOILGGTMILVIGGIIVATLLVFIVILMVRYKVC 622 H-RALGDRPGLIAILALAVLLLAGLA 586 PPSSAPAGAPPQGPFKVVRN 666 PPAWAFWGMSAPSVRVVSAPLVLPWNPGRKLPRS 666 PPAWAFWGMSAPSVRVVSAPLVLPWNPGRKLPRS 11 HUMAN 7 PLRN PLAC 7 PLAC 7</pre>		CC
<pre>KW Immunoglobulin domain; Transmembrane; Glycoprotein; Repeat; FT SIGNAL 1 1 18 FT SIGNAL 1 1 18 FT CHAIN 19 513 GGIJOMA AMPLIFIED ON CHROMOSOME 1 PROTEIN. FT DOWAIN 19 631 GGIJOMA AMPLIFIED ON CHROMOSOME 1 PROTEIN. FT TRANSMEM 631 651 CGIJOMA AMPLIFIED ON CHROMOSOME 1 PROTEIN. FT DOMAIN 19 630 GGIJOMA AMPLIFIED ON CHROMOSOME 1 PROTEIN. FT DOMAIN 19 631 651 CGIJOMA AMPLIFIED ON CHROMOSOME 1 PROTEIN. FT RENEAT 16 139 EXTRACELLULAR (POTENTIAL). FT REPEAT 116 139 EXR 1. FT REPEAT 116 139 LAR 2. FT REPEAT 165 139 LAR 3. FT REPEAT 165 139 LAR 3. FT REPEAT 165 139 LAR 4. FT REPEAT 165 139 LAR 4. FT REPEAT 213 235 LAR 1. FT REPEAT 213 235 LAR 1. FT REPEAT 236 231 LAR 4. FT REPEAT 236 233 LAR 7. FT REPEAT 236 233 LAR 9. FT REPEAT 334 337 LAR 9. FT REPEAT 334 357 LAR 10. FT CARBOHYD 349 37 LAR 10. FT CARBOHYD 381 381 N-LINKED (GLCNAC) (POTENTIAL). FT CARBOHYD 583 583 N-LINKED (GLCNAC) (POTENTIAL). FT CARBOHYD 583 583 N-LINKED (GLCNAC) (POTENTIAL). FT CARBOHYD 583 583 N-LINKED (GLCNAC) (POTENTIAL).</pre>	Query Match9.5%Score 388.5%DB 1%Length 713Best Local Similarity22.5%Pred. No. 1e-17Best Local Similarity22.5%Matches170%Conservative91Mismatches242Matches170%Conservative91Mismatches27Oy21CPKYCVC0NLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNFITHISROD71Db29CPPQCACQIRPWTPRSSYRBATTVDCNDLFLTAVPPALPAGTCTLLLQSNSITVRUDGSE88Qy72FANMTGLUDLTLERINOPFSFLDLESLRSHLDSNRLPSLGEDTLRGLNVIDHIZV131Qy72FANMTGLUDLTLERINOPFSFLDLESLRSHLDSNRLPSLGEDTLRGLNVIDHIZV131Qy72FANMTGLUDLTLERINOPFSFLDLESLRSHLDSNRLPSLGEDTLRGLNVIDHIZV148Qy72RNNOLGGTADEAF141141Qy132NNNOLGGTADEAF141141Db149NHNOLYRIAPRAFSCINLLRLHINSNLLRAIDSRWFFMLPNLEILMIGGNKVDAILDMNN208Qy145	

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<pre>OS Drosophila melanogaster (Fruit fly) OC Eukaryota; Metazoa; Arthropoda; Mandibulata; Pancrustacea; Hexapoda; OC Eukaryota; Metazoa; Arthropoda; Mandibulata; Pancrustacea; Hexapoda; OC Muscomorpha; Ephydroidea; Drosophilidae; Drosophila. Mu [1] NN [1] RN [1] RN [1] RN [1] RN [1] RN [1] RA Rothberg J.M., Jacobs J.R., Goodman C.S., Artavanis-Tsakonas S.; RA Rothberg J.M., Jacobs J.R., Goodman C.S., Artavanis-Tsakonas S.; RT "Silt: an extracellular protein necessary for development of midline RT glia and commissural axon pathways contains both EGF and LRR RT domains." RL Genes Dev. 4:2169-2187(1990) CC -i- FUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MIDLINE GLIA AND CC -i- RUNCTION: NECESSARY FOR DEVELOPMENT OF MITH FXTRANCFILIAN; CC -i- RUNCTION: NECESS</pre>	 - ALTERNATIVE PRODUCTS. 2 ISOFORMS; A ATTRIX MOLECULES. - ALTERNATIVE PRODUCTS: 2 ISOFORMS; A SHORT FORM; ARE PRODUCED BY ALTERNA; - TISUUE SPECIFICITY: EXCRETED BY THE EVENTUALLY DISTRIBUTED ALONG THE AXE EVENTUALLY DISTRIBUTED ALONG THE AXE - SIMILARITY: CONTAINS 24 LEGUTIBE-RICI - SIMILARITY: CONTAINS 1 C-TERMINAL CC. - SIMILARITY: CONTAINS 1 LAMININ G-LII 	This the the modi enti	CC DR EMBL; X53959; CAA37910.1; - DR PIR; A36665; A36665 DR HSSP; P00740; 1EDM. DR FlyBase; FBGN0003425; sli. DR InterPro; IPR000152; Asx hydroxyl. DR InterPro; IPR000515; Asx hydroxyl. DR InterPro; IPR000515; Asx hydroxyl. DR InterPro; IPR000515; Asx hydroxyl. DR InterPro; IPR00142; EGF_1ike. DR InterPro; IPR00181; EGF_2.	DR INTEFPRO: IPRO01611; LRR. DR INTEFPRO: IPR000483; LRR_CTERM. DR INTEFPRO: IPR000312; LRR_NEERM. DR INTEFPRO: IPR003592; LRR_OUT. DR INTEFPRO: IPR003591; LAR_UTP. DR INTEFPRO: IPR003591; LARLING. DR Pfam; PF00007; CYS_KNOT; 1. DR Pfam; PF00007; CYS_KNOT; 1. DR Pfam; PF00054; LARLING. DR Pfam; PF004560; LRR; 16. DR Pfam; PF004560; LRR; 16.	SMART SMART SMART SMART SMART SMART SMART SMART SMART	DR PROSITE: PSOLUBS; CTCK_Z; 1. DR PROSITE: PSOLUBS; CTCK_Z; 1. DR PROSITE: PSOLUB6; EGF_Z; 5. DR PROSITE: PSOLUB6; EGF_Z; 5. DR PROSITE: PSOLUB7; EGF_CA; 2. DR PROSITE: PSOLUB7; EGF_CA; 2. DR PROSITE: PSOLUB7; EGF_CA; 2. DR PROSITE: PSOLUB7; EGF_CA; 2. FW Neurogenesis; Glycoprotein; Signal; Alternative splicing; KW EGF-Like domain; Repeat; Leucine-rich repeat. FT SIGNAL 1 36 SLIT PROTEIN.
FT REFEAT 52 77 LAR 1. FT REPEAT 78 98 LAR 2. FT REPEAT 78 99 121 LAR 3. FT REPEAT 123 147 LAR 4. FT REPEAT 123 147 LAR 4. FT REPEAT 170 192 LAR 5. FT REPEAT 170 192 LAR 6. FT REPEAT 219 241 LAR 7. FT REPEAT 242 264 LAR 9. FT REPEAT 242 264 LAR 9. FT CARBOHYD 221 251 N-LINKED (GLCNAC) (POTENTIAL). FT CARBOHYD 277 N-LINKED (GLCNAC) (POTENTIAL).	Query Match6.9%Score 282.5; DB 1; Length 646;Best Local Similarity22.2%; Pred: No. 6.4e-11;Length 646;Matches145; Conservative84; Mismatches218; Indels205; Gaps27;Qy7 GLLAFGMAFAVVDACPKYCVCONLSESLGTL-CPSKGLLFVPPDIDRRTV551111111Db12 GLIAF-LTEVIDSTTCPSVCRCDNGFIYCNDRGLTSIPADIPDDATTLYLQNNQ640y56EIRLGGNFIIHISRQDFANNTG77	Db 65 INNAGIPQDLKTKVNVQVIYLYENDLDEFPINLPRSLRELHLQDNNVRTIARDSLARIPL 124 Qy 78 LVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPS 114 Db 125 LEKLHLDDNSVSTVSIEEDAFADSKQLKLLFLSRNHLSSIPSGLPHTLEELRLDDNRIST 184 Qy 115 LGEDTLRGLVNLQHLIVNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPDNRIST 184	Db 185 IPLHAFKGLNSLRRLVLDGNLLANQRIADDTFSR-LONLTELSLVRNSLAAPPLNLPS 241 Qy 173 WNLHQLSLDHNLLDHIABGTFADLOKLARLDLTSNRLOKLPPDPIFARSQASALTAT 229 Db 242 AHLQKLYLDONAISHIPYNTLAKNELEELDLSNNNLTTLPRGLPDLGNLAQ 294 Qy 230 PFAPPLSFSFGONPLHCNCELERLDLSNNNLTTLPRGLFDDLGNLAQ 294 Qy 230 PFAPPLSFSFGONPLHCNCELLMLRRLEERLDLSNNNLTTLPRGLFDDLGNLAQ 294 Db 292 PFAPPLSFSFGGNPLHCNCELLMLRRLEERLDLSNNNLTTLPRGLFDDLGNLAQ 294 Db 293 PFAPPLSFSFGGNPLHCNCELLMLRRLEERLDLSNNNLTTLPRGLFDDLGNLAQ	Qy 290 LITQHTHKLLVLEGQAATLKCKAIGDPSPLIHWVAPDBRLVGNSSRTAVYD-NGTLDIFI 348 Db 315 VKARAVVNVRGLMCQGPEKVRGMAIKDITSEMBECF 351 Qy 349 TTSODSGAFTCIAANAAGEATAMVEVSIVQLPHLSNSTGRTAPPKSRLS 397 Qy 349 TTSODSGAFTCIAANAAGEATAMVEVSIVQLPHLSNSTGRTAPPKSRLS 397 Qy 349 TTSODSGAFTCIAANAAGEATAMVEVSIVQLPHLSNSTGRTAPPKSRLS 397 Db 352 ETGPQGGVANAAAKTTASNHASATTPQGSLFTLKAKRPGLRLP 394 Oy 398 DITGSSKTSRGGGGGGGEPPKSPERAVLVSEVTTSALVKWSVSKSAPRVKMYQLQYN 457 Db 395 DN 304 11 11 15 15 15 16 Db 398 DITGSSKTSRGGGGGGGGEPPKSPERAVLVSEVTTTSALVKMSVSKSAPRVKMYQLQYN 457 16	458 CSDEVLLYRMIPASNKA-FVVNNLVSGTGYDLCVLAMMDDTATTLTATNIVGGAOFFTK 458 HSPAGSITETLVOGDKTEYLLTALEPKSTYIICMVTM - ETSNAYVADETPVCAKAETA 445 HSPAGSITETLVOGDKTEYLLTALEPKSTYIICMVTM - ETSNAYVADETPVCAKAETA 517 ADYPOCQSMHSQILGGTMI - LVIGGII VATLLVFIVILLMVEYKVNHBA 564 517 DYPOCQSMHSQILGGTMI - LVIGGII VATLLVFIVILLMVEYKVNHBA 564 503 DSYGPTTTLNQEQNAGPMASLPLAGIIGGAVALVELFLVLGAICMYV - HQA 552	RESULT 3 SLIT DROME STANDARD; PRT; 1480 AA. ID SLIT DROME STANDARD; PRT; 1480 AA. AC P24014; DT 01-MAR-1992 (Rel: 21, Created) DT 01-MAR-1992 (Rel: 21, Last sequence update) DT 01-MAR-1992 (Rel: 41, Last annotation update) DT 15-JUN-2002 (Rel: 41, Last annotation update) SLI

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us-09-831-846-2.rsp

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Page 4

<pre>SQ SEQUENCE 1480 AA; 165752 NW; F9D5925FC1/0B1C3 CAUGT; Query Match 6.4%; Score 263; DB 1; Length 1480; Best Local Similarity 28.0%; Pred, No. 3.7e-09; Matches 89; Conservative 39; Mismatches 102; Indels 88; Gaps 11;</pre>	GLLAFGMAFAUVDA-CPKYCVCONLSE [: : : : : 51 GGLGSVGIHIPGGGVGVITEARCPRVCSCTGLNVI	QY 59 LGGNFIIHISRODFANMTGLVDLTLSRNTISHIQPESFLDLESLRSLHLDSNRLPSLGED 118 : :	QY 119 TLRGLVNLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVNLHQL 178 CV : : : : : : : : : : : : : : : : : : :	QY 179 SLDHNLLDHLAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLSFS 238 	QY 239 FGGNPLHCNCELLMLRRLERD DDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQH 294 Db 234 CDCHLSWLSRFLRSATRLAPYTRCQSPSQLKGONVADLHDQEFKCSGLTEH 284	295 ТНКLLVL	Db 285APMECGA 291	SUI SUI	9, Created) 1, Last sequence update) 1, Last annotation update)	Insulin-like growth factor binding protein complex actu fautte precursor (ALS) [GFALS] IGFALS OR ALS]		RP SEQUENCE FROM N.A. RC TISSUB=Liver; RX MEDLINE=93038676; PubMed=1384485; RA Dai J., Baxter R.C ;	"Molecular cloning or the actualize subunity of the factor binding protein complex."; Biochem. Biophys. Res. Commun. 188:304-309(1992).	−ທທ∑⊓	Endo 		$\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	CC This SWISS-PROT entry is copyright. It is produced through a collaboration CC This SWISS-PROT entry is copyright. It is produced through a collaboration CC between the Swiss Institute of Bioinformatics and the EMBL outstation CC the European Bioinformatics Institute. There are no restrictions on its
	2 4 4 6 3 4 4 6 3 0 8 2 0 8	416 440 545 569	593 617 641 666	701 743 788	812 LRR 22. 836 LRR 23. 861 LRR 24.	983 EGF-LIKE 2 1022 EGF-LIKE 3 1022 EGF-LIKE 3	1002 EGF-LIKE 1100 EGF-LIKE 1149 EGF-LIKE	1152 1325 LAMININ G-LIKE. 1353 1392 EGF-LIKE 7. 1409 1480 CTCK.	111 111 207 207 357 357 435 435 783 783	788 788 N-LINKED (GLCNAC) 958 958 N-LINKED (GLCNAC) 998 998 N-LINKED (GLCNAC)	1060 1060 N-LINKED (GLCNAC) 1159 1159 N-LINKED (GLCNAC) 1175 1175 N-LINKED (GLCNAC) 1243 1243 N-LINKED (GLCNAC)	1292 1292 N-LINKED (GLCNAC) 911 922 BY SIMILARITY. 916 932 BY SIMILARITY. 934 943 BY SIMILARITY. 950 961 BY SIMILARITY.	955 971 BY 973 982 BY 989 1001 BY	995 1010 BY 1012 1021 BY 1028 1041 BY 1035 1050 BY	1052 1061 BY 1068 1079 BY 1073 1088 BY 1090 1099 BY	1120 1127 BY 1120 1137 BY 1139 1148 BY 1357 1368 BY	1362 1380 BY 1382 1391 BY 1409 1443 BY 1423 1457 RY	1434 1473 BY 1438 1473 BY 1442 1479 BY 1394 1404 MI
FT REPEAT FT REPEAT FT REPEAT FT REPEAT	FT REFEAT FT REFEAT FT REFEAT FT REFEAT FT REFEAT			ET REPEAT ET REPEAT ET REPEAT ET REPEAT		FT DOMAIN	FT DOMAIN FT DOMAIN		FT CARBOHYD FT CARBOHYD FT CARBOHYD FT CARBOHYD FT CARBOHYD		FT CARBOHYD FT CARBOHYD FT CARBOHYD FT CARBOHYD	FT CARBOHYD FT DISULFID FT DISULFID FT DISULFID FT DISULFID FT DISULFID		FT DISULFID TAULATO TAULATO FT DISULFID FT DISULFID	FT DISULFID FT DISULFID FT DISULFID FT DISULFID	FT DISULFID FT DISULFID FT DISULFID FT DISULFID	FT DISULFID FT DISULFID FT DISULFID FT DISULFID	FT DISULFID FT DISULFID FT DISULFID FT VARSPLIC

DDLETCGSPGGLKG - RYFW HVR :	282 340 331	RESULT 5 CHAD HUVAN ID CHAD HUVAN STANDARD; PRT; 359 AA. AC 015335; Q96RU5; DT 15-JUN-2002 (Rel. 41, Created)	15-JUN-2002 (Rel. 41, Last sequence update) D-JUN-2002 (Rel. 41, Last annotation update) Chondroadherin precursor (Cartilage leucine-rich protein). CHAD	Homo sapiens (Human). Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. NCBI_TaxID=9606;	SEQUENCE FROM N.A. MEDLINE=98008928; PubMed=9344663; MEDLINE=98008928; PubMed=9344663; Grover J., Chen XN., Korenberg J.R., Roughley P.J.; The structure and chromosome location of the human chondroadherin gene (CHAD)."; Genomics 45:379-385(1997).	<pre>SEQUENCE FROM N.A. BEOUENCE FROM N.A. MEDLINE=21413956; PubMed=11445564; Maansson B., Wenglen C., Moergelin M., Saxne T., Heinegaard D.; Maansson B., Wenglen C., Moergelin M., Collagen type II."; Association of chondroadherin with collagen type II."; J. Biol. Chem. 276:32883-32888(2001) . J. FUNCTION: Promotes attachment of chondrocytes, fibroblasts, and osteoblasts. This binding is mediated (at least for chondrocytes and fibroblasts) by the integrin alpha(2)beta(1). May play an incortant role into some and integrin alpha(2)beta(1).</pre>	 Indicate Clark the regulation of chordedyce growth and proliferation (By similarity). SUBUNT: Mostly monemic (By similarity). Interacts with collagen type II. SUBELDUAR LOCATION: Extracellular matrix (By similarity). SUBELLUAR LOCATION: Extracellular matrix (By similarity). TISSUE SPECIFICITY: Present in chondrocytes at all ages. SIMILARTY: BELONGS TO THE SMALL LEUCINE-RICH PROTEOGUYCANS (SLRPS) FAMILY. CLASS IV SUBFAMILY. SIMILARTY: CONTAINS 11 LEUCINE-RICH REPEATS (LRR). 	This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/ or send an email to license@isb-sib.ch).	<pre>EMBL: U96769, AAC13410.1; - EMBL: U96768; AAC13410.1; JOINED. EMBL: U96768; AAC13410.1; JOINED. EMBL: AF371228; AAK51556.1; - Genew; HGNC:1909; CHAD. MIM; 602178; - InterPro; IPR001611; LRR. InterPro; IPR000433; LRR. Cterm. InterPro; IPR003521; LRR. Nterm. InterPro; IPR003521; LRR. Lyr.</pre>
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<pre>tatement is not removed. Usage by and for commercial license agreement (See http://www.isb-sib.ch/announce/ license@isb-sib.ch).</pre>	282; JC1282. ; TPR001611; LRR. ; TPR001613; LRR_Cterm. ; TPR000372; LRR_Neerm. ; TPR003592; LRR_Out. ; TPR003591; LRR_Out. ; TPR003591; LRR_UTP.		repeat, Repeat, Signal. INSULIN-LIKE GROWTH FACTOR BINDING	TEIN COMPLEX ACID LABILJ 1. 2. 3.		LAR 11. LAR 12. LAR 13. LAR 15. LAR 16. LAR 16. LAR 19. LAR 19.	нннннн	Length 603; i Indels 84; Gaps NLSESLGTLCPSKGLLFVPPDI	DLAFWALGECHLOGIDFGASADAEGFOCEVACICSHUDYIDELSVFCSSKNLTHLEDD1 72 DRRTVELRLGGNFIIHISRODFANMTGLVDLTLSRNTISHIOPFSFLDLESLRSLHLDSN 110 PVSTRALWLDGNNLSSIPSAAFONLSSLDFLNLGGSWLRSLEPOALLGLQNLYYLHLERN 132 RLPSLGEDTLRGLVNLQHLIVNNNOLGGIADEAFEDFLLTLEDLDLSYNLHGLPWDSVR 170 : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

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Tue Jun 10 08:57:40 2003

Page 5

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<pre>RC TISSUE=Brain; RX MEDLINE=99156230; PubMed=10048485; RA MEDLINE=99156230; PubMed=10048485; RA Mayajima N., Tanaka A., Kotani H., Nomura N., Ohara O.; RA Miyajima N., Tanaka A., Kotani H., Nomura N., Ohara O.; RT "reduction of the coding sequences of unidentified human genes. XII. "Frediction of the coding sequences of too new CDNA clones from brain which code RT The complete sequences of 100 new CDNA clones from brain which code RT MA Res. 5:355-364(1998). ILEUCINE-RICH REPEATS (LRR). INA Res. 5:355-364(1998). ILEUCINE-RICH REPEATS (LRR). CC This SWISS-PROT entry is copyright. It is produced through a collaboration CC This SWISS-PROT entry is copyright. It is produced through a collaboration cC The European Bioinformatics Institute of Bioinformatics and the EMBL outstation- cC the European Bioinformatics Institute. There are no restrictions on its codified and this statement is not removed. Usage by and for commercial cc entities requires a license agreement (See http://www.isb-sib.ch/announce/ cc or send an email to license@isb-sib.ch).</pre>	EMBL, AB020725; BAA74 InterPro; IPR001611; InterPro; IPR00163; InterPro; IPR003322; InterPro; IPR003352; InterPro; IPR003353; Pfam, PF01463; LRR(T PFINTS; PR0019; LBUR SMART; SM0019; LRR(T SMART; SM00369; LRR(T SMART; SM0369; LRC(T SMART; SMART; SM0369; LRC(T SMART; SM0369; LRC(T); LRC(T); LRC(T); LRC(T); LRC(T); LRC(T); LRC(T)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Query Match5.9%; Score 242.5; DB 1; Length 966;Best Local Similarity21.2%; Pred. No: 4.40.08;Matches 177; Conservative 96; Mismatches 327; Indels 233; Gaps 34;Qy13 MAPAVVDACPKYCVCONLESLGTLCPSKGLIPYPDDIDRRT 54Qy34 LAPAVTSLVLSCAETIDYYGEICDNACPCEEKDGILTVSCENRGIISLSEISPPRFPI 91Db34 LAPAVTSLVLSCAETIDYYGEICDNACPCEEKDGILTVSCENRGIISLSEISPPRFPI 91Qy55 VELRLGGNFIHISROPFANMTGIVDLTLSRNTISHIQPFSFLDLSEISRSHHDSNRLPS 114Db92 YHLLLSGNLLNRLYPNEPVNYTGASILHLGSNVIODIETGAFHGLRGLRRLHLNNNKLBL 151Db92 YHLLLSGNLLNRLYPNEPVNYTGASILHLGSNVIODIETGAFHGLRGLRRLHLNNNKLBL 151	QY 115 LGEDTLRGL/WLQHLI/WNNOLGGIADEAFEDFLLTLEDLDLSYNNLHGL/WDSVRRWW 174 Db 152 LRDDTFLGLR/LEVLQVDYNYISVIEPNAF 1 QY 175 LHQLSLDHNLDHIAEGTFADLOKLARLDTSNRLOKLPPDPIFARSQASALTATPFAPP 234 QY 175 LHQLSLDHNLDHIAEGTFADLOKLARLDTSNRLOKLPPDPIFARSQASALTATPFAPP 234 QY 175 LHUL 234 Db 187 LOULILINNILLSSLENNILPR-FYDTHLDLRGNRLKLLPYVGLLQHMDKV 235 OY 235 LSFSFGGNPLHCNCELLWLRRLERDDLETCGSPGGLKGRYFWHYREE 282 OY 236 VELQLEBNPWNCSCELISLKDWLDSISYSALVGELVGHWDSPLIH 311 QY 236 VELQLEBNPWNCSCELISLKDWLDSISYSALVGELVGHVCETPFRLHGRDLDEVSCO 289 QY 236 VELQLEBNPWNCSCELISLKDWLDSISYSALVGEVCETPFRLHGRDLDEVSCO 289 QY 236 VELQLEBNPWNCSCELISLKDWLTOHTHLLDLGGAATLKCKAIGPPSPLIH 321 Db 290 E-LCFRPLIEDVENFLETTGYLHTTPASVNSVATSSSAVYKPPLKPFRGRUFKRPRKPRKPRFR 348
F0146 F0146 SM003 SM0000 SM0003 Leuc Ilula	REPEAT 218 241 LKR REPEAT 243 266 LRR REPEAT 267 290 LRR REPEAT 267 290 LRR REPEAT 267 290 LRR REPEAT 267 290 LRR REPEAT 267 317 LLRR REPEAT 293 346 BY S DISULFID 304 346 BY S DISULFID 304 346 BY S CARBOHYD 304 346 BY S CARENTUCT 114 114 V CONFLICT 114 114 V CONFLICT 166 166 P SEQUENCE 359 AA 40487 MV P SUBLY 359 AA 40487 MV P P SUBLY 359 AA 40487 MV P P	4 LLGGLLAFGMAFAVVDACPKYCVCONLSESLGTLCPSKGLI 1	173 VN-LHQLSLDHNLLAKFHVDRNQLSSYPSAALSKLRVVEELKLSHNPLKSIPDNAFQSF 173 VN-LHQLSLDHNLLDHIAEGTFADLQKLARLDLTSNRLQKLPPDFIFARSQASALTATPF 243 GRYLETLWLDNTNLEKFSDGAFLGVTTLKHVHLENNRLNQLPSNFPFDSLETLALT 232 APPLSFSFGGNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHYEEE 283 199NNPWKCTCQLRGLRRWLEAKASRPDATCASPAKFKGQHIRDTD 341	RESULT 6 Y918 HUMAN STANDARD; PRT; 966 AA. AC 094951; DT 16-OCT-2001 (Rel. 40, Created) DT 16-OCT-2001 (Rel. 40, Last sequence update) DT 16-OCT-2001 (Rel. 40, Last sequence update) DT 16-OCT-2001 (Rel. 40, Last annotation update) DT 16-OCT-2001 (Rel. 40, Last annotation update) DT 16-OCT-2001 (Rel. 40, Last sequence to be annotate) DT 16-OCT-2001 (Rel. 40, Last sequence update) DT 16-OCT-2001 (Rel. 40, Last sequence update) DT 16-OCT-2001 (Rel. 40, Last sequence to be annotate) DT 16-OCT-2001 (Rel. 40, Last sequence update) DT 16-OCT-2

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<pre>RA Marsh V.L., Martin S.L., McConnachie L.J., McLay K., McMurray A.A., RA Milne S.A., Mistry D., Moore M.J.F., Mullikin J.C., Nickerson T., RA Dilver K., Parker A., Patel R., Pearce T.A.V., Peck A.I. RA Phillimore B.J.C.T.], Pratel R., Pearce T.A.V., Peck A.I. RA Rice C.M., Ross M.T., Scott C.E., Sehra H.K., Showhkeen R., Sims S., Skuce C.D., Ross M.T., Scott C.E., Steward C.A., Sulscon J.E., RA Skuce C.D., Smith M.L., Soderlund C., Steward C.A., Sulscon J.E., RA Tracey A., Tromans A.C., Vaudin M., Wallis J.M., Phorpe A., RA Milming L., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S., RA Wilming J., Wray P.W., Hubbard T., Durbin R.M., Bentley D.R., Beck S., RA Tracey J., Wray P.W., Hubbard T., Durbin R.M., Entley D.R., Beck S., RA Tracer J., Wray P.W., Hubbard T., Durbin R.M., Entley D.R., Beck S., RA Tracer J., Wray P.W., Hubbard T., Durbin R.M., Entley D.R., Beck S., RA Tracer J., Wray P.W., Hubbard T., Durbin R.M., Entley D.R., Beck S., RA Tracer J., Wray P.W., Hubbard T., Durbin R.M., Entley D.R., Beck S., RA Tracer J., Wray P.W., Hubbard T., Durbin R.M., Entley D.R., Beck S., RI, Trre 414.865-871(2001)</pre>	<pre>NBTURE 414:805-87. [5] SEQUENCE FROM N.A TISSUB=Kidney; Strausberg R.; Submitted (1AN-20) -!- FUNCTION: May signaling. -!- TISSUE SPECIF muscle, lung, -!- SIMILARITY: CC -!- SIMIL</pre>	EMBL: AF169677; AAF2 EMBL: AR040902; BAA9 EMBL: AK027297; BAB5 EMBL: AK027679; BAB5 EMBL: AK027619; BAB5 EMBL: AK027619; BAB5 EMBL: AL132826; CAB8 EMBL: BC02094; AA92 EMBL: BC02094; AA32 Genew; HGNC:3762; FL MMY, 604089;] InterPro; IPR001961]; InterPro; IPR00161];	IPR000483; IPR0003592; IPR003592; IPR003592; IPR03592; IPR03592; IPR035592; IPR73; I463; IPR73; I463; IPR73; IPR7370; IP	RART; SM00365 Transmembrane SIGNAL CHAIN DOMAIN DOMAIN REPEAT REPEAT REPEAT REPEAT REPEAT REPEAT REPEAT REPEAT REPEAT
<pre>138 GIADEAFEDFLLTLEDLDLSYNNLHGLEWDSVRRWNLHQLSLDHNLLDHIAEGTFADLQ 197 160 RLEDGLFEG-LGSLWDLNLGWNSLAVLPDAAFFGLGSLRELVLAGNRLAYLQPALFSGLA 218 198 KLARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLSFSFGGNPLHCNCELLWLRRLE 257 198 KLARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLSFSFGGNPLHCNCELLWLRRLE 257 298 RLDNLSRNALRAIKANVFVQLPRLQKLY 248 258 RDDDLFTCGSFGGCLKG 273 249 LDRNLIAAVAFGAFLG 264 249 LDRNLIAAVAFGAFLG 264 </pre>	<pre>Ar B HUMAN FLR3 HUMAN STANDARD; PRT; 649 AA. 0N2Ü0; 096KB1; 09P259; 096K42; 096K39; 15-JUN-2002 (Rel. 41, Last sequence update) 15-JUN-2002 (Rel. 41, Last securate, Last secured 10 sequence flowan. Momalia: Eutheria; Primates; Catarrhini; Hominidae; Homo. NCBI TaxID=9606; NCBI TaxID=9606; NCBI TaxID=9606; MEDLINB=20112755; PubMed=1044439; MEDLINB=20112755; PubMed=10, PUTMENCE MEDLINB=20112755; PubMed=10, PUTMENCE MEDLINB=20112755; PubMed=10, PUTMENCE MEDLINB=20112755; PubMed=10, PUTMENCE MEDLINB=20112755; PubMed=10, PUTMENCE MEDLINB=20112755; PUTMENCE MEDLINB=20112755; PUTMENCE MEDLINB=20112755; PUTMEN</pre>	<pre>transmembrane leucine-rich repeat proteins."; transmembrane leucine-rich repeat proteins."; [2] SEQUENCE FROM N.A. TISSUE-Brain; MagBase T., Kikuno R., Ishikawa KI., Hirosawa M., Ohara O.; Nagase T., Kikuno R., Ishikawa KI., Hirosawa M., Ohara O.; "rediction of the coding sequences of unidentified human genes. XVII. "Prediction of the coding sequences of unidentified human genes. XVII. The complete sequences of 100 new cDNA clones from brain which code for large proteins in vitro."; DNA Res. 7:143-150(2000).</pre>	<pre>1 J 1 SEQUENCE FROM N.A. TISSUE=Embryo, and Teratocarcinoma; Isogai T., Ota T., Hayashi K., Sugiyama T., Otsuki T., Suzuki Y., Nishikawa T., Nagai K., Sugano S., Shiratori A., Sudo H., Nishikawa T., Nagai K., Sugano S., Shiratori A., Sudo H., Nagatsuma M., Hosoiri T., Kaku Y., Kodira H., Kondo H., Sugawara M., Takahashi M., Chiba Y., Ishida S., Murakawa K., Ono Y., Takiguchi S., Watanabe S., Kimura K., Murakami K., Ishii S., Kawai Y., Saito K., Watanabe S., Kamatsu A., Nakamura Y., Nagahari K., Masuho Y., Ninomiya K., Iwayanagi T.; "NEDO human cDNA sequencing project."; Submitted (MAY-2001) to the EMBL/GenBank/DDBJ databases.</pre>	<pre>REDURNCE FROM N.A. SEQUENCE FROM N.A. X DEDLINE-21658749; PUbMed=11780052; X DEDLUNE-21658749; PUbMed=11780052; X DEDLOUKAR P., Matthews L.H., Ashurst J., Burton J., Gilbert J.G.R., Bailey J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M., R Basley J., Barlow K.F., Bates K.N., Beard L.M., Beare D.M., R Beasley O.P., Bird C.P., Blakey S.E., Bridgeman A.M., Brown A.J., R Beasley O.P., Burtor A.P., Carder C.C. Carter N.P., R Buck D., Burrill W.D., Butler A.P., Carder C.C. Carter N.P., R Chapman J.C., Clamp M., Clark G., Clark L.N., Clark S.Y., Clee C.M., R Claege S., Cobley V.E., Collier R.E., Connor R.E., Corby N.R., R Coulson A. G., Frankland J.M., Fraser A., French L., Garner P., R Billington A.G., Frankland J.M., Fraser A., French L., Garner P., R Grafham D.V., Griffiths C., Griffiths M.N.D., Gwilliam R., Hall R.E., R Huckle E., Hunt A.R., Hunt S.E., Jekosch K., Johnson D.M., R Ay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S., R Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S., R Kay M.P., Kimberley A.M., King A., Knights A., Laird G.K., Lawlor S., R Kay M.P., Kimberley A.M., King A., Knights A., Lawlor S., R Kay M.P., Kimberley A.M., King A., Knights A., Lawlor S., R Kay M.P., Kimberley A.M., King A., Knights A., Lawlor S., R Kay M.P., Kimberley A.M., King A., Knights A., Lawlor S., R Kay M.P., Kay M.P., King A., King A., Kughts A., Lawlor S., R Kay M.P., Kimberley A.M., King A., Kughts A., Lawlor S., R Kay M.P., Kawa Kay M.P., King A., Kughts A., Lawlor S., R Kay M.P., Kawa Kay M., King A., King A., Kughts A., Lawlor S., R Kay M.P., Kawa Kay M., King A., Kughts A., Lawlor S., R Kay M.P., Kawa Kay M., King A., King Kay M.P., Kay Kay M.P., King Kay M.P., K</pre>

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Tue Jun 10 08:57:40 2003

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<pre>Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus. NCBL_TaxID=10116; 11 2 11 2 12 2 12 2 125UE-Ovary; 2 125UE-Ovary; 3 145UE-Ovary; 3 15UE-Ovary; 4 15UE-Ovary; 4 15UE-Ovary; 5 15UE-Ovary; 4 15UE-Ovary; 5 15UE-Ovary; 5 15UE-Ovary; 7 15UE-Ovary; 8 15UE-Ovary; 8 15UE-Ovary; 8 15UE-Ovar; 9 15UE-O</pre>		<pre>R InterPro; FP003591, LRR_typ. Ffam; FP00001; 7tm_1; 1. Pfam; PP00466; LRRNT; 1. Pfam; PP01465; LRRNT; 1. Pfam; PP00465; LRRNT; 1. RRINTS; PR00019; LEURICHRPT. SMART; SM00319; LRR; 4. SMART; SM00319; LRR; 1. SMART; 2. SMART; 2. SMART; 2. SMART; 2. SMART; 2. SMART; 2. SMART; 2. SMART; 2. SMART; 2. SMART; 2. SMART</pre>	DOMAIN 25 544 TRANSMEM 545 565 DOMAIN 545 565 TRANSMEM 576 596 TRANSMEM 576 595 TRANSMEM 576 596 TRANSMEM 576 596 DOWALN 620 640 DOWALN 641 661 TRANSMEM 643 703 TRANSMEM 662 682 DOWALN 643 703 TRANSMEM 703 777 TRANSMEM 703 777 DOMALN 777 776 TRANSMEM 777 777 DOMALN 778 794 TRANSMEM 777 777 DOMALN 778 756 TRANSMEM 777 777 DOMALN 778 756 TRANSMEM 777 777 DOMALN 778 756 TRANSMEM 756	REFEAT 81 REFEAT 104 REFEAT 104 REFEAT 108 REFEAT 200 REFEAT 225 REFEAT 225 REFEAT 248 REFEAT 248 REFEAT 318 REFEAT 342 REFEAT 342
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7	Best Local Similarity 21.6%, Pred. No. 3.4e-06, Matches 141; Conservative 90; Mismatches 220; Indels 195; Gaps 2 Matches 141; Conservative 90; Mismatches 220; Indels 195; Gaps 2 1 :	UV 118 11.1 <t< td=""><td>QY336TAVYDNGTLDIFITTSQDSGAFTCIAAN</td><td>RESULT 9 LGR4 RAT STANDARD; PRT; 951 AA. LGR4 RAT STANDARD; PRT; 951 AA. AC 0922H4, DT 15-JUN-2002 (Rel. 41, Last sequence update) DT 15-JUN-2002 (Rel. 41, Last sequence update) DT 15-JUN-2002 (Rel. 41, Last annotation update) DT 15-JUN-20</td></t<>	QY336TAVYDNGTLDIFITTSQDSGAFTCIAAN	RESULT 9 LGR4 RAT STANDARD; PRT; 951 AA. LGR4 RAT STANDARD; PRT; 951 AA. AC 0922H4, DT 15-JUN-2002 (Rel. 41, Last sequence update) DT 15-JUN-2002 (Rel. 41, Last sequence update) DT 15-JUN-2002 (Rel. 41, Last annotation update) DT 15-JUN-20

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DE 2). GN FLRT2 OR KIAA0405. OS Homo sapiens (Human). OS Homo sapiens (Human). OC Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. OC NCBI_TaxID=9606; N (1) RN (1) RN (1) RN (1) RN MEDLINE=20112755; PubMed=10644439; RM MEDLINE=201127755; PubMed=10644439; RM MEDLINE=201127755; PubMed=10644439; RM MEDLINE=201127755; PubMed=10644439; RM MEDLINE=20112755; PubMed=10644439; RM MEDLINE=20112755; PubMed=10644439; RM MEDLINE=201127755; PubMed=10644439; RM MEDLINE=20112755; PubMed=106444439; RM MEDLINE=20112755; PubMed=10644439; RM MEDLINE=20112755; PubMed=106444439; RM MEDLINE=20112755; PubMed=106444439; RM MEDLINE=20112755; PubMed=106444439; RM MEDLINE=20112755; PubMed=106444439; RM MEDLINE=20112755; PUBMEDLINE=20112755; RM MEDLINE=20112755; PUBMEDLINE=2012755; RM MEDLINE=2012755; RM MEDLINE=2012755; RM MEDLINE=2012755; RM MEDLINE=2012755; RM MEDLINE=2012755; RM MEDLINE=2012755; RM MEDLINE=2012755; RM MEDLIN	transmembrane lucine-rich repeat proteins."; Genomics 62:417-426(1999). [2] SOUDBNCE FROM N.A.	<pre>KU TLSSUE=Statity KX TLSSUE=Statity KX MEDLINE=98116655; PUDMed=9455477; KA MEDLINE=98116655; PUDMed=9455477; KA Miyajima KI., Nagase T., Nakajima D., Seki N., Ohara O.; RA Miyajima N., Tanaka A., Kotani H., Nomura N., Ohara O.; RT "Prediction of the coding sequences of unidentified human genes. VIII. RT 78 new CDNA clones from brain which code for large proteins in pr vitro ".</pre>	and heart. -!- PTM: N-elycosylated. -!- SIMILARITY: CONTAINS 1 FIBRONECTIN TYPE III-LIKE DO -!- SIMILARITY: CONTAINS 10 LEUCINE-RICH REPEATS (LRR).	CC This SWISS-PROT entry is copyright. It is produced through a collaboration CC This SWISS-PROT entry is copyright. It is produced through a collaboration CC between the Swiss Institute of Bioinformatics and the EMBL outstation - CC the European Bioinformatics Institute. There are no restrictions on its CC use by non-profit institutions as long as its content is in no way CC modified and this statement is not removed. Usage by and for commercial		MIM, 604807; - [] InterPro; IPR003961; InterPro; IPR001611; InterPro; IPR000483;			SWART; SM00082; LRRCT; 1. SMART; SM00013; LRRNT; 1. SMART; SM00369; LRR TYP; 1. Transmembrane; Leučīne-rich	SIGNAL 1 CHAIN 36 DOMAIN 36 TEDMAIN 36	563 662 662 662 1138 1138 1138 1138 1138 1138 203 203 203 203 203 203 203 203 203 203
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Page 10

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A B C	ery Match st Local Similarity 2 tches 121; Conservati	RL J. Biol. Chem. 270:431-436(1995). CC -!- FUNCTION: Promotes attachment of chond CC osteoblasts. This binding is mediated CC and fibroblasts) by the integrin alpha
у Ч	56 ELRLGGNFIIHISRQDFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLP 113 : : 1 : :	
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VO P	172 MVNLHQLSLDHNLLDHIAEGTFADLOKLARLDLTSNRLQKLPPDPIFARSQASALTATPF 231 : : :: :: ::: : : 252 -THLIRLYLQDNQINHIPLTAFSNLRKLBRLDISNNQLRMLTQGVFDNLSNLKQLTAR- 308	-!- This betw
\$ 8	232 APPLSFSFGGNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEFVCEPPLI 291 239NNPWFCDCSIKWVTEWLKYIPSSLNVRGFMCGGP- 342	CC the European Bioinformatics Institute. Tr CC use by non-profit institutions as long CC modified and this statement is not removed CC entities requires a license agreement (See
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8 8	IYRMIPASNKAFVVNNLVSGTGYDLCVLAWDDT	
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6 8	524 NTASSHEQTTSHSMGSPFLLAGLIGGAUFVLUVLLSV 561	CHAIN 23 352 REPEAT 26 99 REPEAT 100 123
RESULT CHAD_B ID_C	LT 11 - BOVIN - CHAD BOVIN STANDARD; PRT; 361 AA.	REFEAT 124 147 LRR REPEAT 173 195 LRR REPEAT 173 195 LRR REPEAT 196 219 LRR REPEAT 196 219 LRR
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NN G N	AND PART	CONFLICT 52 52 S -> R (IN SEQUENCE 361 AA; 40884 MW; DA79DC981
RA RA	MEDLINE-94342341; Pubmed=8063792; Neame P.J., Sommarin Y., Boynton R.E., Heinegaard D.; "The structure of a 38-kDa leucine-rich protein (chondroadherin)	Query Match 5.8%; Score 236; I Best Local Similarity 25.4%; Pred. No. 3e- Matches 90; Conservative 42; Mismatches
RL	isolated from bovine cartilage."; J. Biol. Chem. 269:21547-21554(1994).	QY 7 GLLAFGMAFAVVDACPKYCVCQNLSESLGTLCE

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7 GLLAFGMAFAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNFIIH 66

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Db 160 RLEDGLFEG-LGNLWDLNLGWNSLAVLPDAAFRGLGGLRELVLAGNRLAYLQPALFSGLA 218 Qy 198 KLARLDLTSNRLQKLPPDPIFARSQASALTATFFAPPLSFSFGGNPLHCNCELLWLRRLE 257 Ov 198 KLARLDLTSNRLQKLPPDPIFARSQASALTATFFAPPLSFSFGGNPLHCNCELLWLRRLE 257	19 LDRNLIAAVAPGAFLG 264	LGR4 HUMAN LDR4 HUMAN STANDARD; PRT; 951 AA. AC QBSRB1, QSNYD1; DT 15-UUN-2002 (Rel. 41, Created) DT 15-UUN-2002 (Rel. 41, Last sequence update) DT 15-UUN-2002 (Rel. 41, Last annotation update) DT 15-UUN-2002 (Rel. 41, Last annotation update) DT Leucine-rich repeat-containing of protein-coupled receptor 4 precursor		RP 11 RP SEQUENCE FROM N.A. RC TISSUB=Pancreas; RX MEDLINE=21294803; PubMed=11401528; RA Loh E.D., Broussard S.R., Kolakowski L.F. Jr.; RT "Molecular characterization of a novel glycoprotein hormone	<pre>G-protein-coupled receptor."; Biochem. Biophys. Res. Commun. 282:757. -!- FUNCTION: Orphan receptor. -!- SUBCELJULAR LOCATION: Integral memb -!- TISSUE SPECIFICITY: Expressed in mu placenta, ovary, testis and adrena. cond. thyroid. scomach. trachea. ht</pre>			DC EMBL; AF346711; AAK31153.1; - DR EMBL; AF346710; AAK31153.1; JOINED. DR EMBL; AF346700; AAK31153.1; JOINED. DR EMBL; AF257182; AAF68989.1; - DR Genew; HGNC.13299; GPA48 DR MIM; 606666; - DR MIM; 606666; - DR TITEPPO: IPPR001611; LRR		
	CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - CC the Buropean Bioinformatics Institute. There are no restrictions on its CC use by non-profit institutions as long as its content is in no way CC modified and this statement is not removed. Usage by and for commercial CC or send an email to license agreement (See http://www.isb-sib.ch/announce/ CC or send an email to license@isb-sib.ch).	•	Ffam: PF00560; LRRN; Pfam: PF01462; LRRN; Pfam: PF01463; LRRU; PRINTS; PR00019; LER SMART; SM00370; LRR SMART; SM00082; LRN; SMART; SM000822; LRN;	SMART; SMOUJJ; LKRNY; 1. SMART; SMOO369; LKR TYP; 11. Glycoprotein; Leucine-rich re SICMAL 1 27 CHAIN 28 605	REPEAT 53 73 REPEAT 74 96 REPEAT 98 120 REPEAT 121 144 REPEAT 146 168 REPEAT 146 168 REPEAT 169 192 REPEAT 194 216	REPEAT 217 240 LRR REPEAT 242 264 LRR REPEAT 242 264 LRR REPEAT 289 312 LRR	REPEAT REPEAT REPEAT REPEAT REPEAT REPEAT REPEAT REPEAT	182 504 LRR 182 505 504 LRR 10 64 64 N-LI 10 64 64 N-LI 10 85 85 N-LI 10 85 85 N-LI 10 36 35 N-LI 10 36 368 N-LI 10 515 515 N-LI 10 515 515 N-LI 10 500 580 N-LI	Query Match 5.8%; Score 235.5; DB 1; Length 605; Best Local Similarity 5.8%; Pred. No. 6.5e-08; Aatches 78; Conservative 20 AcpKYCVCQNLSE-SLGTLCPSKGLLFVPPDIDRRTVELRLGGNFI1HISRQDFANWTG	

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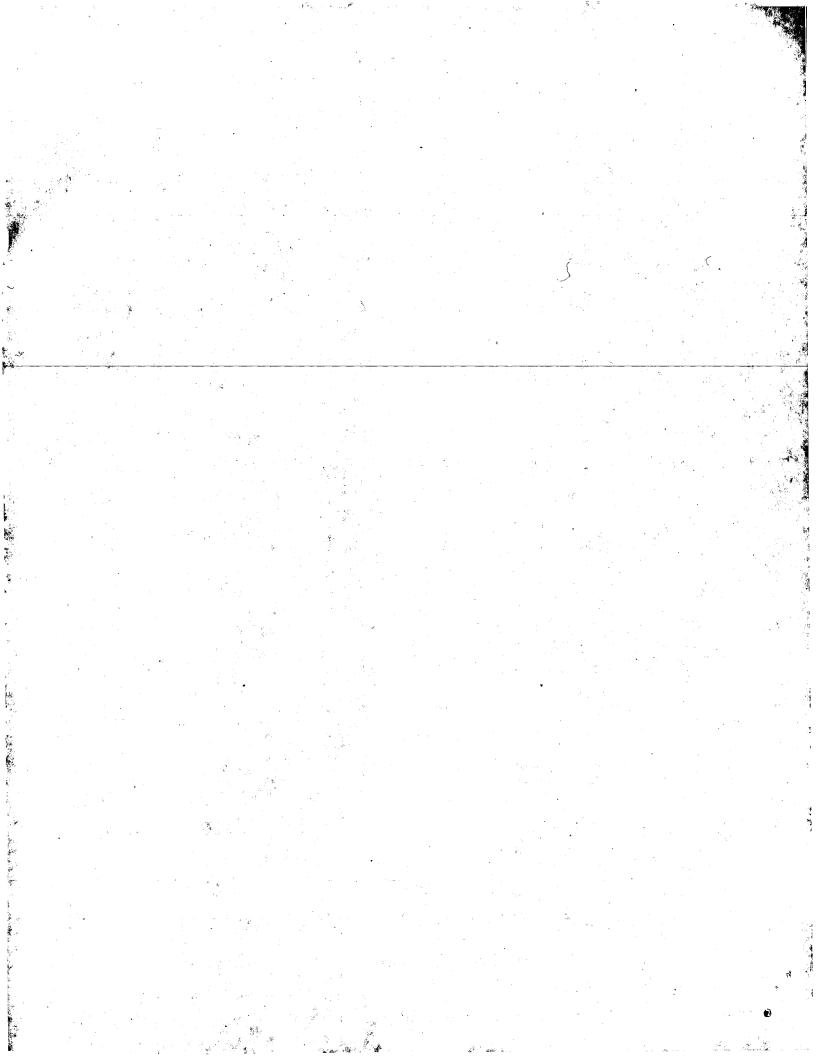
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<pre>DT 01-JUN-2001 (TrEMBErel: 17, Created) DT 01-JUN-2001 (TrEMBErel: 17, Last sequence update) DT 01-JUN-2001 (TrEMBErel: 19, Last sequence update) DE Hypothetical 84.7 Kba protein DE Mypothetical 84.7 Kba protein OS Macaca fascicularis (rab earing macaque) (Cynomolgus monkey) OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; OC Mammalia; Eutheria, Primates; Catarrhini; Cercopithecidae; OC Cerconthecinae; Macaca</pre>			ILLETFLO; IFRO01491, ILLETFLO; IFRO0483; ILLETFLO; IFRO0392; ILLETFLO; IFRO03592; ILLETFLO; IFRO03591; Pfam; PFO0041; fn3; Pfam; PF00041; fn3; Pfam; PF00041; f13; Pfam; PF00500; LRR;	FN FN STORE	Hypothetical proc BYPOTHETICAL Proc SEQUENCE 789 AA Duery Match Sest Local Similarit (atches 784; Conse	Qy 1 METLLGGLLAFGMAFAVVDACPKYCVCONLSSLGTLCPSKGLLFVPDDIDRFTVELRLG 60 Db 1	QY 121 RGLVNLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWNLHQLSL 180 181	Qy 241 GNPLACNCELLWLRRLERDDLETCGSPGGLKGRYFWHVREBEFVCEPPLITQHTHKLLV 300 Qy 241 GNPLACNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREBEFVCEPPLITQHTHKLLV 300 Db 241 GNPLACNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREBEFVCEPPLITQHTHKLLV 300 Qy 301 LEGQAATLKCKAIGPSPLIHWVAPDRLLVGNSRTAVYDNGTLDIFITTSQDSGAFTCI 360	Db 301 LEGQAATLKCKAIGDPSPLIHWAPDDRLVGNSRTAVYDNGTLDIFITTSQDSGAFTCI 360 Qy 361 AANAAGEATAWEVSLVQLPHLSNSTSRTAPPKSRLSDIGGSGGGGGGGGGGGEPFKS 420 [
DR SWART; SM00370; LRR; 1. DR SWART; SM00082; LRRCT; 1. DR SWART; SM00013; LRRNT; 1. DR SWART; SM00169; LRR TYP; 3. KW Immunoglobulin domain. FT NON TER 1 1 SQ SEQUENCE 832 AA; 88978 MW; 9B0E80F7BFF974A8 CRC64;	Query Match100.0%;Score 4094;DB 4;Length 832;Best Local Similarity100.0%;Pred. No. 5.4e-310;Matches789;Conservative0;Matches789;Conservative0;Mismatches0;Indels0;Gaps0;Qy1METLIGGLLAFGMAFAVVDACPKYCVCONLSESLGTLCPSKGILFVPPDIDRRRYELRLG60111111111111111111111111111111111	QY 6.1 GNF11H1SRQDFANMTGLVDLTLSRNT1SH1QPFSFLDLESLRSLHLDSNRLPSLGEDTL 120 Db 104 GNF11H1SRQDFANMTGLVDLTLSRNT1SH1QPFSFLDLESLRSLHLDSNRLPSLGEDTL 163 Db 104 GNF11H1SRQDFANMTGLVDLTLSRNT1SH1QPFSFLDLESLRSLHLDSNRLPSLGEDTL 163 QY 121 RGLVNLQHL1VNNNQLGGTADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVNLHQLSL 180 Db 164 RGLVNLQHL1VNNNQLGGTADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVNLHQLSL 180	QY 181 DHNLLDHIAEGTFADLOKLARLDLTSNRLQKLPPDPIFARSQASALTATPFAPPLSFSFG 240 1	Qy 301 LEGQAATLKCKAIGDPSPLIHWVAPDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCI 360 1 </td <td>421 PPERAVLYSEVTTSALVKMSVSKSAPRVKMYOLQYNCSDDEVLIYRMI PASNKAFVVNN 411 111</td> <td>PPOGPP PPOGPP PPOGPP RLMGAF</td> <td>SSSSLGSGEAAGLGRAPWR I PPSAPRPKPSLDRLMGAF GAGTSARGHHSDREPLLGPPAARARSLLPLBGKAKR </td> <td>Db 764 SHSFDMGDFAAAAAGGVVEGGYSEPERKVSNIWTKRSLSVNGMLLPFEESDLVGARGTFGS 823 Cy 781 SEWVMESTV 789 Db 824 SEWVMESTV 832 Db</td> <td>RESULT 2 O9BE71 ID 09BE71 PRELIMINARY, PRT, 789 AA. AC 09BE71;</td>	421 PPERAVLYSEVTTSALVKMSVSKSAPRVKMYOLQYNCSDDEVLIYRMI PASNKAFVVNN 411 111	PPOGPP PPOGPP PPOGPP RLMGAF	SSSSLGSGEAAGLGRAPWR I PPSAPRPKPSLDRLMGAF GAGTSARGHHSDREPLLGPPAARARSLLPLBGKAKR 	Db 764 SHSFDMGDFAAAAAGGVVEGGYSEPERKVSNIWTKRSLSVNGMLLPFEESDLVGARGTFGS 823 Cy 781 SEWVMESTV 789 Db 824 SEWVMESTV 832 Db	RESULT 2 O9BE71 ID 09BE71 PRELIMINARY, PRT, 789 AA. AC 09BE71;

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DR InterPro; IPR003599; Ig_C2. DR InterPro; IPR003599; Ig_C2. DR InterPro; IPR003006; Ig_MHC. DR InterPro; IPR001611; LRR. DR InterPro; IPR000312; LRR.Atterm. DR InterPro; IPR000312; LRR.Atterm. DR InterPro; IPR000312; LRR.Atterm. DR Pfam; PP000401; fn3; 1. DR Pfam; PP000401; fn3; 1. DR Pfam; PP00197; LBCNT; 1. DR PR1019; LEURICHPT. DR SWART; SM00019; LEURICHPT. DR SWART; SM00009; IG; 1. DR SWART; SM00009; IG; 1. DR SWART; SM00009; IG; 1. DR SWART; SM00009; IG; 1. DR SWART; SM00019; LEURICHPT. DR SWART; SM00019; LEURICHPT. DR SWART; SM00019; LEURICHPT. DR SWART; SM00000; IG; 1. DR SWART; SM00000; IG; 1. DR SWART; SM00002; LRRCT; 1. DR SWART; SW00002; LRRCT; 1. DR SWART; SW00000; LR SWART; SW00000; LR SWAR; 2. DR SWART; SW00000; LR	Query Match 94.9%; Score 3885.5; DB 11; Length 788; Best Local Similarity 94.9%; Pred. No. 8.6e-294; Matches 750; Conservative 10; Mismatches 27; Indels 3; Gaps 2; QY 1 METLLGGLIAFGMAPAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLG 60 QY 1 METLLGGLLAFGMAPAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLG 60 Db 1 METLLGGLLAFGMAPAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLG 60 QY 61 GNF11H1SRQDFAMMTGLVDLTLSRNT1SHIOPFSFLDLESLRSLHLDSNRLDSLGEDTL 120 Op 61 GNF11H1SRQDFAMMTGLVDLTLSRNT1SHIOPFSFLDLESLRSLHLDSNRLDSLGEDTL 120	 24 GNLHALNUNNOLGGIADEAFEDFLLTLEDLDLSYNNLHGLPUDGANDAURANNLHOLSL 18 121 RGLWNLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPUDSVRMWNLHQLSL 18 121 RGLWLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPUDSVRMWNLHQLSL 18 181 DHNLLDHIAEGTFADLOKLARLDLTSNRLOKLPPDFIFARSOASLTATPFAPPLSFSFG 24 181 DHNLLDHIAEGTFADLOKLARLDLTSNRLOKLPPDFIFARSOASLLTATPFAPPLSFSFG 24 241 GNPLHCNCELLMLRRLERDDDLETCGSFGGLKGRYFWHLREEFVCEPPLITQHTHKLLV 30 241 GNPLHCNCELLMLRRLERDDDLETCGSFGSLKGRYFWHIREEFFVCEPPLITQHTHKLLV 30 	<pre>301 LEGQAATLKCKAIGDESPLIHWVAPDDRLVGNSSFTAVYDNGTLDIFITTSQDSGAFTC1 1 </pre>	Db 481 LVSGTGYDLCVLAMMDDTATTLATNIVGCAQFFTKADYPQCQSMHSQIKGCTMILVIGG 540 Qy 541 IIVATLLVPIVILMVRYKVCNHEAPSKMAAA-VSNYYSQTNCAQPPPPSSAPAGAPPGCF 599 Db 541 IIVATLLVFIVILMVRYKVCNHEAPSKMAAA-VSNYSQTNCAQPPPPSSAPAGAPPGCF 599 Db 541 IIVATLLVFIVILMVRYKVCNHEAPSKMAAA-VSNYSQTNCAQPPPPSSAPAGAPPGCF 599 Db 541 IIVATLLVFIVILMVRYKVCNHDTPGKMAAATVSNYSQTNCSQPPLGGIPVGQLPQAP 600 Qy 600 PKVVVRNELLDFTASLARASDSSSSSSLGSGEAAGLGRAPWRIPPSAPRPKPSLDRLMCA 659 Db 601 PKVVVRNELLDFTASLARASDSSSSSSLGSGEAAGLGRAPWRLPPPAPRPKPSLDRLMCA 660 Qy 660 FASLDLKSQRKEELLDSRTPAGRGGGTSSRSGLGSGEAAGLGRAPWRLPPPARPKPSLDRLMCA 660 Db 661 PRULUL Db 661 FASLDLKSQRKEELLDSRTPAGRGGGTSSRGHHSDREPLLGPPATRARSLLPLPLEGKAK 719 Db 661 FASLDLKSQRKEELLDSRTPAGRGGTSSRGHHSDREPLLGPPATRARSLLPLPLEGKAK 720 Qy 720 RSHSFDMGDFAAAAAGGVVPGGYSPPRKVSNIWTKRSLSVNGMLLPFESDLVGARGTFG 779
Db361AANAAGEATATVEVS1VOLPHLSNSTSRTAPPKSRLSD1TGSSKTSRCGGGSGGGEPPKS420QY421PPERAVLVSEVTTTSALXKKSVSKSAPRVKMYOLOYNCSDDEVL1YRM1PASNKAFVVNN480Db421PPERAVLVSEVTTTSALAKKSVSKSTPRVKMYOLOYNCSDDEVL1YRM1PASNKAFVVNN480QY481LVSGTGYDLCVLAMMDTATTLTATN1VGCAOFFTKADYPOCOSMH501LGG7M1LV1GG540Db481LVSGTGYDLCVLAMMDTATTLTATN1VGCAOFFTKADYPOCOSMH501LGG7M1LV1GG540CY1	Db 661 ASLDLKSQRKEELLDSRTPAGRGGGTSARGHHSDREPLLGPPAARARSLLPLPLEGKARR 720 Qy 721 SHSFDMOPPAAAAGGVVPGGYSPPRKVSNIWTKRSLSVNGMLLPPEESDLVGARGTFGS 780 Qy 721 SHSFDMOPPAAAAGGVVPGGYSPPRKVSNIWTKRSLSVNGMLLPPEESDLVGARGTFGS 780 Db 721 SHSFDMOPPAAAAGGVVPGGYSPPRKVSNIWTKRSLSVNGMLLPPEESDLVGARGTFGS 780 Qy 731 SHSFDMOPPAAAAGGVVPGGYSPPRRVSNIWTKRSLSVNGMLLPPEESDLVGARGTFGS 780 Oy 781 SEWVMESTV 789 Db 781 SEWVMESTV 789 Db 781 SEWVMESTV 789	SULT 3 2YK3 3 09CYK 001-JU 01-JU 01-JU 01-JU 01-JU 57304 57304 Биках Миб п Миб п	<pre>CA NCLLTaxIU=10090; RN [1]</pre>	<pre>RA Brownsern M.U., Bult C., Fletcner C., Fujita M., Gariboldi M., RA Gustincich S., Hill D. Hofmann M., Hume D.A., Kamiya M., Lee N.H., RA Lyons P., Marchionni L., Mofmina J., Mazarelli J., Mombaerts P., RA Nordone P., Ring B., Ringwald M., Rodriguez I., Sakamoto N., RA Suski H., Sator K., Schoenbach C., Seya T., Shibata Y., Storch KF., RA Suzuki H., Toyo-oka K., Wang K.H., Watiz C., Whitteker C., Wilming L., RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S., RA Wynshaw-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S., RI "Punctional annotation of a full-length mouse cDNA collection."; RL Nature 409:685-690(2001). DR HSDP: PSC76; ITIK. DR HSDP: S76; ITIK. DR MGD: MGI:1917780; 573042005Rik. InterPro; IPR003961; P. III. DR InterPro; IPR003969; Ig.</pre>

QY 361 AANAAGEATANVEVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG	Db 416 LSQDKIVVAEATSSTALLKENFQRNIPGIRMFQIQYNGTVDDTLVYRMIPPTSKTFLVNN 475 Qy 481 LVSGTGYDLCVLAMWDDTATTLTATNIVGCAQFFTKADYPOCQSWHSQILGGTMHILVIGG 540 Db 476 LAGGTWYDLCVLAWWDDTATTLTATNIVGCAQFFTKADYPOCQSWHSQILGGTMHILVIGG 540 Db 476 LAGGTWYDLCVLAWWDDTATTLTATNIVGCAQFFTKADYPOCQSWHSQILGGTMHILVIGG 540	QY 541 IIVATLLVFIVILMVRYKVCNHEAPSKMAAAVSNVYSQTNGAQPPPSSAPAGAPPGGPP 600 :: ;	QY 601 KVVVRNELLDFTASLARASDSSSSSSLGSGEAAGLGRAPWRIPPSAPRPKPSLDRLM 657 Db 591 KQAVGHEPRAQCCKATSDNVIQSSETCSSQDSSTTTSALPPS 633	658 GAFASLDLKSQRKEELLDSRTPAGRGGTSARGHHSDREPLLGFPAAARASLLPLP71	Db 634 TSSTSVSQRQRRKTGTKPSTEPQNE-AVTNVESQNTNRNNSTALQLVSRPPDSV 686 Qy 714 LEG-KARRSH 722	Db 687 TEGPTSKRAH 696	RESULT 5 CORTIND	Q9BTN0 PRELIMINAR Q9BTN0;		Hypothetical 66.3 KDa Homo sapiens (Human). Bukaryota, Metazoa, Ch	NCBI_TAXID=9606; [1] [1] SEOUBNCE FROM N.A.	TISSUE=LUNG; Strausberg R.;	SUDMITTEd (FEB-2001) EMBL; BC003578; AAHO INTERPRO; IPR003961;	InterPro; InterPro; InterPro; InterPro;	InterPro; 1PR000483; InterPro; 1PR000372; InterPro; 1PR003591; Pfam; PF00041; fn3;	Pfam; F Pfam; F Pfam; F Pfam; F	DR SWART; SWO000; FG/ 1. DR SWART; SWO0408; IG/ 1. DR SWART; SW00408; IG/ 1. DR SWART; SW00022; LARCT; 1.	SMARI, SM0013 SMART, SM00369, Hypothetical pr SEQUENCE 628	Query Match 38.4%; Score 1573; DB 4; Length 628; Best Local Similarity 53.1%; Pred. No. 7.8e-114; Indels 14; Gaps 5; Matches 312; Conservative 88; Mismatches 174; Indels 14; Gaps 5;
Db 721 RSHSFDMGDFAAAAA - AVPGGYSPPRRVSNIWTKRSLSVNGMLLPFEESDLVGARGTFG 778 Qy 780 SSEWVNESTV 789 Db 779 SSEWVNESTV 789 Db 779 SSEWVNESTV 789	In	DT 01-DEC-2001 (TrEMBLEF1. 19, Created) DT 01-DEC-2001 (TrEMBLEF1. 19, Last sequence update) DT 01-JUN-2002 (TrEMBLEF1. 21, Last annotation update) DE CDNA FLJ30803 fis, clone FEBRA2001245, weakly similar to NAG14.	Homo sapiens (Human). Eukaryota; Metazoa; Chc Mammalia; Eutheria; Pri NCBI_TaxID=9606;	11 SUDERICE FROM N.A. TISSUE=BRAIN;	RA Ninomiya K., Wagatsuma M., Kanda K., Kondo H., Yokoi T., Kodaira H., RA Furuya T., Takahashi M., Kikkawa E., Omura Y., Abe K., Kamihara K., RA Katsuta N., Sato K., Tanikawa M., Yamazaki M., Sugiyama T., Irie R.,	UESUKI T., SATO H., WAKAMATSU A., ISTII S., YAMAMOTO U., ISOT Kawai-Hio Y., Saito K., Nishikawa T., Kimura K., Yamashita H. Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Murakawa K.,	RA Kanehori K., Takahashi-Fujii A., Oshima A., Sugiyama A., Kawakami B., RA Suzuki Y., Sugano S., Nggahari K., Masuho Y., Nagai K., Isogai T.; PT "NEPO himan CDNA semiencing mencing mencing	RL Submitted (CCT-2001) to the EMBL/GenBank/DDBJ databases. DR EMBL, AKO55365; BAB70910.1; -	DR InterPro; IRR003661; FN III. DR InterPro; IRR0030065 19_MHC. DR InterPro; IRR001611; LAR.	DR InterPro; IPR000483; LRR_Cterm. DR InterPro; IPR001005; Myb_DNA_binding. DR Pfam; PP00041; fn3; 1.	Fram; Fr00041; 19; 1. Pfam; PF00560; LRR; 6. Pfam; PF01463; LRRCT; 1. PROSITE; PS00037; MYB 1; UNKNOW	SEQUENCE 719 AA; 79472 MW; CE301F219705FF4B CRC64;	Query Match 44.5%; Score 1821; DB 4; Length 719; Best Local Similarity 51.4%; Pred. No. 4.6e-133; Matches 375; Conservative 118; Mismatches 195; Indels 42; Gaps 13;	Qy 1 METLLGGLLAFGMAFAVVDACPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLG 60	QY 61 GNFIIHISRQDFANWTGLVDLTLSRNTISHIQFSFLDLESLRSLHLDSNRLPSLGEDTL 120 :: :	QY 121 RGLVNLQHLIVNNNQLGGTADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRMVNLHQLSL 180 	QY 181 DHNLIDHIAEGTFADLOKLARLDLFSNRLOKLPPDDFFARSQASALTATPFAPPLSFSFG 240 :: : : : : : : :	QY 241 GNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREBEFVCEPPLITQHTHKLLV 300 	QY 301 LEGQAATLKCKAIGDESPLHHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCI 360

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DR Pfam; PF00047; ig; 1. DR Pfam; PF00560; LRR.r; 6. DR Pfam; PF00560; LRR.r; 1. DR SWART; SM00406; IG22; 1. DR SWART; SM00370; LRR; 4. DR SWART; SM00370; LRR; 4. DR SWART; SM00305; LRR.TY; 1. DR PROSITE; PS00037; MYE 1; UNKNOWN_1. FT NON TER FT NON TER FT NON TER SQ SEQUENCE 700 AA; 74865 MW; 30D0432242494159 CRC64;	Query Match 38.4%; Score 1571.5; DB 4; Length 700; Best Local Similarity 45.7%; Pred. No. 1.2e-113; Matches 352; Conservative 106; Mismatches 203; Indels 109; Gaps 18;	QY 59 LGGNFIIHISRQPFANMTGLVDLTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGED 118 I III : : : : : : : : : : : : : : : : : : :	QY 119 TLRGLVNLQHLIVNNNQLGGIADEAFEDFLLTLEDLDLSYNNLHGLPWDSVRRWNLHQL 178 V 111	QY 179 SLDHNLIDHIAEGTFADLQKLARLDLTSNRLQKLPPDPIFARSQASALTATPFAP-PLSF 237 CY :	QY 238 SFGGNPLHCNCELLWLRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLIT-OHTH 296 	QY 297 KLIVLEGQAATLKCKAIGDESPLIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGA 356 : : :: : : : : : : : : 1: :: : : : : : : : : : Db 237 RALVVEGQAVSLRCRAVGDPEPVVHWVAPDGRLLGNSSRTRVRGDGTLDVTITTLRDSGT 296	OY 357 FTCIAANAAGEATAMVEVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGSGGGG 416 OY 1	Qy 417 PPKSPPERAVLVSEVTTTSALVKWSVSKSAPRVKMYQLQYNCSDDEVLIYRMIPASNKAF 476 D 1 1::::::::::::::::::::::::::::::::::::	477 V	408 LVNDLAAGRAYDLCVLAVYDDGATALPATRVVGCVQFTTAGDPAPCRPLRAHFLGGTMII 467	Qy 537 VIGGIIVATILIVFIVILMVRYKVCNHEAPSKMAAAVSNVYSQTNGAQPPPSSAP 591 Db 468 AIGGUIVASVLVFIVILMIRYKVYGDGSRRVKGSRSLPRVSHVCSOTNGAGTGAAO 524	592 AGAPPOGPPKVVVRNELLDFTASLARASDSSSSSSLGSGEAAGLGRA	DD 525 AFALFAUNTEALKEVESUAAFAVAVEARAMEAEIASA 362 QY 639 PWRIPPSAPRPKPSLDRLMGAFA-SLDLKSQRKEELLDSRTPAGRGAGTSARGHHSDREP-697	Db 563BPEVVLGRSLGGSATSLCLLPSEETSGEBSRAAVGPRRSRSG 604	Qy 698 LLGPPAARARSLPLPLEGKAKRSHSFDMGDFAAAAGGVVPGGYSPPRKVSNIWT 753 D 1 : : : 1 1 D 605 ALEPPTSAPPTLALVPGGAAARPRPQQRYSFD-GDYGALFQSHSYPRARRT 655	QY 754 KRSLSVNGMLLPFEESDLVGARGTFGSSEWVMESTV 789	Db 656 KRHRSTPHLDGAGGGÅÅGEDGDLGLGSARACLAFTSTEWMLESTV 700	RESULT 7 099KT6 ID 099KT6 PRELIMINARY; PRT; 492 AA.
Qy 16 AVVDACPKYCVCONLSESLGTLCPSKGLLFVPPDIDRFTVELRLGGNFIIHISRQDFANM 75 Db 23 ATPSPCPRRCRCOTOSLPLSVLCPGAGLLFVPPSLDRRAAELRLADNFIASVRRRDLANM 82 Qy 76 TGLVDLTLSRNTISHIQPFSFLDLESLRSLHUDSNRLPSLGEDTLRGLWLQHLJVNNNQ 135 Qy 76 TGLVDLTLSRNTISHIQPFSFLDLESLRSLHUDSNRLPSLGEDTLRGLWLQHLJVNNNQ 135 Qy 76 TGLVDLTLSRNTISHIQPFSFLDLESLRSLHUDSNRLPSLGEDTLRGLWLQHLJVNNNQ 135 Qy 71 12 12	QY 196 LQKLARLDLTSNRLQKLPPDPIPARSQASALTATPFAPPLSFSFGGNPLHCNCELLW 252 	QY 253 LRRLERDDDLETCGSPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLVLEGQAATLKCKA 312 1 :	Qy 313 IGDPSPLIHWVAPDDRLVGNSSFTAVYDNGTLDIFITTSQDSGAFTCIAANAGEATAMV 372	QY 373 EVSI VQLPHLSNSTERTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGGGPPKSPPERAVLVSE 430 1::: 1 1 1 1 1::: 1 1 1 1 1 1::: 1 1 1 1 1 1 1::: 1 1 1 1 1 1 1 1 1::: 1 <t< td=""><td>Qy 431 VTTTSALVKWSVSKSAFRVKMYOLQYNCSDDEVLIYRMIPASNKAFVVNNLVSGTGYDLC 490 1</td><td>QY 491 VLAMWDTATTLFATNIVGCAOFFTKADYPOCOSMHSQILGGFWILVIGGIIVATLLVFI 550 ::: : </td><td>QY 551 VILMVRYKVCNHEAPSKMAAVSNYYSQTNGAQPPPSSAPAGAPP 596 : :: : : : : </td><td>RESULT 6 O9P244</td><td>Q9P244 PRELIMINARY; Q9P244;</td><td>DT 01-CCT-2000 (TrEMBLrel. 15, Created) DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update) DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)</td><td>KIAA1484 protein (Fragment). KIAA1484. Homo sapiens (Human).</td><td>oμo</td><td>EQUENCE FROM N MEDLINE=2027746</td><td>Naga Prene</td><td>which code for large proteins in vitro.", DNA Res. 7:143-150(2000). EMBL; AB040917; BAA96008.1;</td><td></td><td>1 1 1 1 1 1 1 1</td><td></td></t<>	Qy 431 VTTTSALVKWSVSKSAFRVKMYOLQYNCSDDEVLIYRMIPASNKAFVVNNLVSGTGYDLC 490 1	QY 491 VLAMWDTATTLFATNIVGCAOFFTKADYPOCOSMHSQILGGFWILVIGGIIVATLLVFI 550 ::: :	QY 551 VILMVRYKVCNHEAPSKMAAVSNYYSQTNGAQPPPSSAPAGAPP 596 : :: : : : :	RESULT 6 O9P244	Q9P244 PRELIMINARY; Q9P244;	DT 01-CCT-2000 (TrEMBLrel. 15, Created) DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update) DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)	KIAA1484 protein (Fragment). KIAA1484. Homo sapiens (Human).	oμo	EQUENCE FROM N MEDLINE=2027746	Naga Prene	which code for large proteins in vitro.", DNA Res. 7:143-150(2000). EMBL; AB040917; BAA96008.1;		1 1 1 1 1 1 1 1	

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· · ·		Mouse). Mouse). azoa; Chorda eria; Rodent 90;	EMBL; BC004018; AAH04018.1; MGD; MG1:2136810; BC004018. InterPro; IPR003599; IG.	InterPro; IPR003598, InterPro; IPR003600, InterPro; IPR003006, InterPro; IPR001611,	InterPro; IPR000483 InterPro; IPR000372 InterPro; IPR003591 InterPro; IPR001005	Ptam; PF00047; Pfam; PF00560; Pfam; PF01463; SMART; SM00409; SMART; SM00409;	SMART; SM00410; IG II SMART; SM00812; LRRCI SMART; SM00013; LRRUT SMART; SM0013; LRRUT SMART; SM00369; LRR	PROSITE; PS00037; MY Hypothetical proteir SEQUENCE 492 AA;	Query Match 32.3%; Score 1320.5; DB 11; Length 492; Best Local Similarity 57.6%; Pred. No. 2.5e-94; Matches 258; Conservative 62; Mismatches 113; Indels 15; Gaps 5;	Qy 21 CPKYCVCQNLSESLGTLCPSKGLLEVPPDIDRRTVELRLGGNFIIHISRQPFANNTGLVD 80 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1<	Qy 81 LTLSRNTISHIQPFSFLDLESLRSLHLDSNRLPSLGEDTLRGLVNLQHLIVNNNQLGGIA 140 V : : 140 Db 94 LTLSRNTIGQVAAGFFADLRALHLDSNRLAEVRGDQLRGLGNLRHLILGNNQIRKVE 153	Qy 141 DEAFEDFLITLEDIDLSYNNLHGLØWDSVRRWNUHQLSLDHNLIDHTAEGTFADLOKLA 200 D 154 1	QY 201 RLDLTSNRLQKLPPDPIFARSQASALTATPFAP-PLSFSFGGNPLHCNCELLMLRRLERD 259 DD 214 RLDMTSNRLHKLPPDGLFLRSQGGGPKPFTPLTVSFGGNPLHCNCELLMLRRLFRE 269	QY 260 DDLETCGSPGGLKGRYFWHVREEEFVCEPPLIT-QHTHKLLVLEGQATLKCKAIGDSP 318 D 210 11111 111111 1111111 1111111 D 270 DDLETCATPEHLTDRYFWSIPEEFLCEPPLITRQAGGRALVVEGQAVSLRCRAVGPPEP 329	Qy 319 LIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAANAAGEATAANEVSIVQ 378 .::	QY 379 LPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGGGGPPKSPPERAULVSEVTTSALV 438 Db 390 LPLMAPPPAAPPTTEPGSSDIATPGRPANDSATERLVAABLTSSSVL1 440	KWSVSKSAPR : RWPAQRPVPG

Tue Jun 10 08:57:40 2003

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DE Hypothetical 31.2 kDa protein. OS Homo sapiens (Human) OS Homo sapiens (Human) DE Wkaryota; Wetazoa; Chordata; Craniata; Vertebrata; Euteleostomi; CC mammalia; Eutheria; Primates; Catarthini; Hominidae; Homo. OX NCBI.Taxip=9666; RN [1] Taxip=9666; RN [1] Taxip=9666; RN [1] Taxip=9666; RN [1] Taxip=9606; RN [1] Taxip=9606; RN [1] Taxip=9606; RN [1] Taxip=9606; RN [1] Taxip=9606; RN [2] Strausberg R.; RN [2] Strausberg R.; RN [2] Strausberg R.; RN [2] Strausberg R.; RN [2] Strausberg N.; RN [3] Strausberg N.; RN [4000207.1]; -: RN [5] Strausberg N.; RN [5] Strausberg	16.0 34.1 tive	Qy 320 IHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAANAAGEATAMVEVSIVQL 379 : : Db 1 MHWVGPDBRLVGNSSRARAFPNGTLEIGVTGAGDAGGYTCIATNPAGEATARVELRVLAL 60	Qy 380 PHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGFPFKSPERAVLVSEVTTTSALVK 439 Qy 18	QY 440 WSVSKSAPRVKMYQLQYNCSDDEVLIYFMIPASNKAFVVNNLVSGTGYDLCVLAMWDDTA 499	QY 500 -TTLTATNIVGCAQFFTKADYPQCQSWHSQILGGTMILVIGGIIVATLLVFIVILMVRYK 558 : :: :: : :	Qy 559 - VCNHEAPSKMAAAVSNVYSQTNGAQPPPPSSAPAGAPPQGPFKVVVRNELLDFTASLAR 617 Qy 559 - VCNHEAPSKMAAAVSNVYSQTNGAQPPPPSSAPAGAPPQGPFKVVVRNELLDFTASLAR 617 Db 232 GAGNGRLPLKLSHVQSQTNGGPSPTPKAHPPRSPP266 266	QY 618 ASDSSSSSLGSGEAAGLGRAPWRIPPSAPRPKPSLDRLMGAFASLDLKSQRKEELLDSR 677 DD 267269269	Qy 678 TPAGRGAGTSARGHHSDREPLIGPPAARARSLLPLPLEGKAKRSHSFDMGDFAAAAAGGV 737 Db 270	Qy 738 VPGGYSPPRKVSNIWTKRSLSVNGMLLPFEESDLVGARGTFGSSEWVMESTV 789 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RESULT 11 Q9HCJ2 PRELIMINARY; PRT; 640 AA. ID Q9HCJ2 PRELIMINARY; PRT; 640 AA. AC 09HCJ2 PRELIMINARY; Last 640 DT 01-MAR-2001 (TEMBLrel: 16, Last sequence update) DT 01-MAR-2001 (TEMBLrel: 16, Last sequence update) DT 01-DEC-2001 (TEMBLrel: 19, Last annotation update)
096C50 1D 096C50 PSELIMINARY, PRT, 450 AA. C 096C50 DT 01-DEC-2001 (TEBMBLrel. 19, Created) DT 01-DEC-2001 (TEBMBLrel. 19, Last sequence update) DT 01-MAR-2002 (TEBMBLrel. 19, Last sequence update) DT 01-MAR-2002 (TEBMBLrel. 20, Last annotation update) Hypothetical 47.4 kba protein (Fragment). DE Hypothetical 7.4 kba protein (Fragment). DE Hypothetical 7.4 kba protein (Fragment). DE Hypothetical 10. DE Hypothetical 10. DE TEAMPOINT 11. DE Ffam; PF000361; IS_MH1678.1; - DE Ffam; PF0003061; IS_MH1678.1; - DE Ffam; PF000311; fn3; 1. DE Ffam; PF00311; fn3; 1. DE Ffam; PF00311; fn3; 1. DE Ffam; PF0031411; fn3; 1. DE Ffa	<pre>297 KLLVLEGQAATLKCKAIGDPSPLHWVAPDRLVGNSSFTAVYDNGTLDIFITTSQDSGA 3 : : : : :: </pre>	QY 357 FTCIAANAAGEATAMVEVSIVOLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGSGGGGE 416 V 1 : 1 1 1 V 1 : 1 1 1 V 1 : 1 1 1 V 1 : 1 1 1 V 1 :	QY 417 PPKSPPERAVLVSEVTTTSALVKWSVSKSAPRVKMYQLQYNCSDDEVLLYRMIPASNKAF 476 11 :: : : :]:: : : :]::]:]:	Qy 4.77 VNNLVSGTGYDLCVLAMMDDTATTLFATNIVGCAQFFTKADYPQCQSMHSQILGGTMIL 536 : + :	QY 537 VIGGIIVATLLVFIVILMVRYKVCNHEAPSKMAAAVSNYSQTNGAQPPPSSAP 591 : : : : Db 237 AIGGVIVASVLVFIVLLMIRYKVYGDGDSRRVKGSRSLPRVSHVCSQTNGAGTGAAQ 293	Qy 592 AGAPPQGPPKVVVRNELLDFTASLARASDSSSSSSLGSGEAAGLGRA 638 0 1 1 1:1:1:1:1 1 1 1:1:1:1 1:1:1 1 1 1:1:1:1 1:1:1 1 1 1 1:1:1 1 1 1 1:1:1 1 1 1 1:1:1 1 1 1:1:1 1:1:1 1 1 1:1:1 1:1:1 1 1 1:1 1:1:1 1 1 1:1 1:1:1 1 1 1:1 1:1:1 1 1 1:1 1:1:1 1 1 1:1 1:1:1 1 1 1:1 1:1 1 1 1:1 1:1 1 1 1:1 1:1 1 1 1:1 1:1 1 1 1:1 1:1 1 1 1:1 1:1 1 1 1:1 1:1 1 1:1 1:1 1:1 1 1:1 1:1 1:1 1 1:1 1:1 1:1 1 1:1 1:1 <td>Qy 639 PWRIPPSAFRFKFSLDRLMGAFA-SLDLKSQFKEELLDSRTPAGRGAGTSARGHHSDREP 697 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1<td>QY 698 LIGPPAARARSILPLPLEGKAKRSHSFDMGDFAAAAAGGVVPGGSSPPRKVSNIWT 753 QY 1 1 1 1 Db 374 Alepptsapptlalvpggaaarprogorysfd-gdygalfgshsyprrarrt 424</td><td>Qy 754 KRSLS 758 Db 425 KRHRS 429</td><td>RESULT 10 09BWJO ID 09BWJO AC 09BWJO P 01-JUN-2001 (TrEMBLrel. 17, Created) DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update) DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update) DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)</td></td>	Qy 639 PWRIPPSAFRFKFSLDRLMGAFA-SLDLKSQFKEELLDSRTPAGRGAGTSARGHHSDREP 697 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 <td>QY 698 LIGPPAARARSILPLPLEGKAKRSHSFDMGDFAAAAAGGVVPGGSSPPRKVSNIWT 753 QY 1 1 1 1 Db 374 Alepptsapptlalvpggaaarprogorysfd-gdygalfgshsyprrarrt 424</td> <td>Qy 754 KRSLS 758 Db 425 KRHRS 429</td> <td>RESULT 10 09BWJO ID 09BWJO AC 09BWJO P 01-JUN-2001 (TrEMBLrel. 17, Created) DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update) DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update) DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)</td>	QY 698 LIGPPAARARSILPLPLEGKAKRSHSFDMGDFAAAAAGGVVPGGSSPPRKVSNIWT 753 QY 1 1 1 1 Db 374 Alepptsapptlalvpggaaarprogorysfd-gdygalfgshsyprrarrt 424	Qy 754 KRSLS 758 Db 425 KRHRS 429	RESULT 10 09BWJO ID 09BWJO AC 09BWJO P 01-JUN-2001 (TrEMBLrel. 17, Created) DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update) DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update) DT 01-MAR-2002 (TrEMBLrel. 20, Last annotation update)

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458 462 482 482	4/6 527 584 584 584						•	
<pre>363 NAAGEATAMVEVSIVQLPHLSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGPFKSPP 1 </pre>	SGTGYDLCVLAMMDDT - ATTLTATNIVGCAQFFT SGTGYDLCVLAMMDDT - ATTLTATNIVGCAQFFT	585 - PPPS 588 585 LPMPA 589 LT 12 20 PRELIMINARY, PRT, 606 AA. 09EZ20 PRELIMINARY, PRT, 606 AA.	01-JUN-2001 (TrEMBLE1. 17, Last sequence update) 01-JUN-2002 (TrEMBLE1. 21, Last sequence update) 01-JUN-2002 (TrEMBLE1. 21, Last annotation update) eA438B23.1 (Neuronal leucine-rich repeat protein) (CDNA FLJ31810 clone NT2R12009289; weakly similar to carboxypeptidase N 83 kDa chain). Hamo sapiens (Human) Homo sapiens (Human) Homo sapiens (Human) Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. NCFL_TaxID=9606;	11 Babbage A.; Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases. Submitted (JAN-2001) to the EMBL/GenBank/DDBJ databases. [2] SEQUENCE FROM N.A. Ishibashi T. Hiraoka S., Musakawa K., Takiguchi S., Kusano J.,	<pre>wwitenabe W. Fujimori K., Tanai H., Ishida M., Yamashita H., Chiba Y. Sugiyama T., Irie R., Otsuki T., Sato H., Wakamatsu A., Ishii S., Yamamot J., Ison Y., Kawai-Hio Y., Saito K., Nishikawa T., Kimura K., Matsuo K., Nakamura Y., Sekine M., Kikuchi H., Kanda K., Wagatuma M., Takahashi-Fujii A., Oshima A., Ngujyama A., Kawakami B. Wagatuma M., Takahashi-Fujii A., Oshima A., Ngujyama A., Kawakami B.</pre>	"WEDO human cDNA sequencing project."; submitted (DCT-2001) to the EMBL/GenBank/DDBJ databases. EMBL; AL353746; CAC227131; - EMBL; AK056372; BAB71167.1; InterPro; IPR003599; IG- InterPro; IPR003599; IG- InterPro; IPR003599; IG- InterPro; IPR003509; IG- InterPro; IPR00	DR InterPro; IPR003006; IG MHC. DR InterPro; IPR00161; LRR. DR InterPro; IPR00463; LRR. DR InterPro; IPR004372; LRR_Nterm. DR InterPro; IPR000351; LRR_Vterm. DR Ffam; PF00447; ig; 10. DR Ffam; PF00467; ig; 10. DR Ffam; PF01463; LRRCT; 1.	PTINTS; PROOD19; LERNT; 1. PRINTS; PROOD19; LEURICHRPT. SWART; SM00409; IG: 1. SMART; SM00410; IG: 1. SMART; SM00410; IGIke; 1. SMART; SM00022; LERCT; 1. SMART; SM00012; LERCT; 1. SMART; SM00013; LERNT; 10.
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	<pre>OX NCBI_TaxiD=9606; NN [1] RP SEQUENCE FROM N.A. RN SEQUENCE FROM N.A. RX MEDLINE=2046683; PubMed=10997877; RX MEDLINE=2046683; PubMed=10997877; RX MEDLINE=20468618; Nakayama M., Hirosawa M., Ohara O.; RX NEDLINE=2046803 sequences of unidentified human genes. RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII The complete sequences of 100 new CDNA clones from brain which RT XVIII THE COMPLETE Sequences of 100 new CDNA clones from brain which RT XVIII THE COMPLETE Sequences of 100 new CDNA clones from brain which RT XVIII THE COMPLETE Sequences of 100 new CDNA clones from brain which RT XVIII THE COMPLETE Sequences of 100 new CDNA clones from brain which RT XVIII THE COMPLETE Sequences of 100 new CDNA clones from brain which RT XVIII THE COMPLETE Sequences of 100 new CDNA clones from brain which RT XVIII THE COMPLETE Sequences of 100 new CDNA clones from brain which RT XVIII THE COMPLETE Sequences of 100 new CDNA clones from brain which RT XVIII THE COMPLETE Sequences of 100 new CDNA clones from brain which RT XVIII THE THE COMPLETE Sequences of 100 new CDNA clones from brain which RT XVIII THE THE COMPLETE Sequences of 100 new CDNA clones from the the the the the the the the the the</pre>	DR H5SF; P_{226895} ; 1100: DR INTERPRO; IPR003598; I9_c2. DR INTERPRO; IPR003598; I9_c2. DR INTERPRO; IPR003606; I9_H6. DR INTERPRO; IPR003606; I9_H6. DR INTERPRO; IPR003616; LAR CTERM. DR INTERPRO; IPR003435; LAR CTERM. DR INTERPRO; IPR003593; LAR CUT. DR INTERPRO; IPR0035931; LAR CUT.	PF00047; 1 PF00560; L PF01462; L PF01462; L PF01462; L S; PR00019; SSM00409; SSM00409; SSM004106; SSM00410; SSM00410; SSM004100; SSM004100; SSM00410; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM004100; SSM00400; SSM00400; SSM00400; SSM00400; SSM00400	<pre>AMAXI: SHOUDIST LATANAY: . SMAXI: SHOUDIST LATANAY: . SMAXI: SHOUDIST SHOUDIST PROVIDED Immunoglobulin domain. NON TER 1 1 1 SEQUENCE 640 AA; 71949 MW; 6058974872636838 CRC64; SOUEY MACK 640 AA; 71949 MW; 6058974872636838 CRC64; SUEY MACK 1 1 1 1 0.6%; SCORE 435.5; DB 4; Length 640; Aset Local Similarity 24.5%; Pred. No. 3.1e-25;</pre>	<pre>nes 163; Conservative 87; Mismatches 238; Indels 177; Gaps 2 ETLLGGLLAFGMAFAVVDACPKYCVCQNLSESLGTLFVPFDIDRRTVEL 3 </pre>	Qy 58 RLGGNFIIHISRQDFANNTGLVDLTLSINTISHIQPFFLDLSELRSHLDSNLPSUGE 11/ Db 82 NLHENOIOIIKVNSFKHLRHLELLOLSRNHIRTIEIGAENGLANLNTLELFDNRLTTIPN 141 Qy 118 DTLRGLVNDLIVNNN	QY 148 LLTLEDEDEDSYNNLHGLPWDSVERWVNLHQLSLDHNLLDHIAEG 191 Db 202 LNLAMCNLREIPNLTPLIKLDELDESGNHLSAIRPGSFOGLMHLQKLMMIQSQIQVIERN 261 QY 192 TFADLQKLARLDLFSNRLQKLPPDFIFARSQASALTATPFAPPLSFSFGGNPLHCNCELL 251 Db 262 AFDNLQSLVEINLAHNNLTLLPHD-LFTPLHHLERIHLHNPWNCNCDIL 310 Db 262 AFDNLQSLVEINLLAHNNLTLLPHD-LFTPLHHLERIHLHHNPWNCNCDIL 310	QY 252 WLRRLERDDDLETCGSPGGLKGRYFWHYREEEFVCEPPLITQHTHKLLVLEGQA 305 Db 11 311 WLSWWIKDMAPSNTACCARCNTPPNLKGRYIGELDONYFTCYAPVIVEPPADLAVTEGMA 370 QY 306 ATLKCKAIGDPSPLIHWVAPDDRLVGGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAA 362 QY 306 ATLKCKAIGDPSPLIHWVAPDDRLVGGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAA 362 Db 371 AELKCRA-STSLTSVSWITPNGTVWTHGAYKVRIAVLSDGTLNFTNVTVQDTGMYTCMVS 429

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<pre>KW Immunoglobulin domain. SQ SEQUENCE 606 AA; 68065 MW; CB608E281B066B9D CRC64; Query Match Best Local Similarity 26.0%; Pred. No. 6.1e-24; Length 606; Best Local Similarity 26.0%; Pred. No. 6.1e-24; Matches 125; Conservative 67; Mismatches 157; Indels 131; Gaps 12; QY 21 CPKYCVCQNLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNFI1HISRODFANMTGLVD 80 28 CPARCECAQNKSVS-CHRRRLIAIPEGIPIETKILDLSKNRLKSVNPEEFISYPLLEE 85 DD 28 CPARCECAQNKSVS-CHRRRLIAIPEGIPIETKILDLSKNRLKSVNPEEFISYPLLEE 85 OY 81 LTLSRNTSHIOPFSFLDLESLRSHLDSNRLPSLGEDTLAGLVNULUUHUNNNULGGIA 140</pre>	EPGAFN EPGAFN SLEVGE	177 OLSLDHNLLDHIAEGTFADLOKLARLDLTSNRLQKLPDPFI2 177 OLSLDHNLLDHIAEGTFADLOKLARLDLTSNRLQKLPDPFI2 266 FLAFKHLVYLTHLNLSYNPISTIEAGMS5DLINDELHIVGAQLRTEHBFPGGLRFLRV 218 FARSQASALTATPFRAPLSFSFGGNPLHOKCELIMLRRLERDDLETCG 218 FARSQASALTATPFRAPLSFSFGGNPLHOKCELIMLRRLERDDLETCG 218 FARSQASALTATPFRAPLSFSFGGNPLHOKCELIMLRRLERDDLETCG 218 FARSQASALTATPFRAPLSFSFGGNPLHOKCELIMLRLERDDLETCG 218 FARSQASALTATPFRAPLSFSFGGNPLHOKCELIMLRLERDDLETCG 218 FARSQASALTATPFRAPLSFSFGGNPLHOKCELIMLRLERDDLETCG 218 FARSQASALTATPFRAPLSFSFGGNPLHOKCELIMLRLERDDDLETCG 218 FARSQASALTATPFRAPLSFSFGGNPLHOKCELIMLFLERDDETCG 218 FARSQASALTATPFRAPLSFSFGGNPLHOKCELIMLFLERDDE	384 GPDTIRERSFKDFHSTALSFYFTCKKFKIREKKLQHLLVDEGQTVQL 319 LIHWVAPDDRLVGNSSRTAVYDNGTLDIFITTSQDSGAFTCIAANAAG :	

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Page 10

X NCBI TAXID=9606; R 10 R 20 R 20	Query Match 9.4%; Score 383; DB 4; Length 653; Best Local Similarity 23.6%; Pred. No. 4e-21; Matches 152; Conservative 87; Mismatches 239; Indels 166; Gaps 20;	Qy 21 CPKYCVCONLSESLGTLCPSKGLLFVPPDIDRRTVELRLGGNF11H1SRQDFANMTGLVD 80 <th>QY 81 LTLSRNTISHIQPFSFLDLBSLRSLHLDSNRLPSLGEDTLRGLVNLQHLIVNNNQLGGIA 140 Q </th> <th>QY 141 DEAFE 141 DEAFE 141 176 QY 141 1 1 1 1 D 164 SYAFNRVPSLMRLDLGELKKLEYISEGAFEGLFNLKYLNLGMCNIKDMPNLTPLVGLE 221</th> <th>QY 177 QLSLDHNLLDHIAECTFADLOKLARLDLTSNRLOKL 212 CY 1 1 1 1 DD 222 ELEWSGNHFPEIRPGSFHGLSSLKKLWWNSQVSLIERNAFDGLASLVELNLAHNNLSSL 281</th> <th>QY 213 PPDDIFARSQASALTATPFAPPLSFSFGGNPLHCNCELLMLRLERDDDLETCG 266 Q 1 : : : : : : 1 D 282 PHD-LFTPLRYLVELHLHHNPWNCDCDILMLAWMLREYIPTNSTCCGRCH 330</th> <th>QY 267 SPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLULEGQAATLKCKAIGDPSPLIHWVAPD 326 : :: !: : : !:: !:: !:: !:: !:: !::::::::::::::::::::::::::::::::::::</th> <th>Qy327DRLVGNSS RTAYYDNGTLDFFITTSQDSGAFTCIAANAGC - EATAMVEVSIVQLPH381Db389GTVLSHASRHPRISVLNGTLNFSHVLLSDTGVTCMVTNVGGNSNASAYLNVSTAEL-N47Qy382LSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG</th>	QY 81 LTLSRNTISHIQPFSFLDLBSLRSLHLDSNRLPSLGEDTLRGLVNLQHLIVNNNQLGGIA 140 Q	QY 141 DEAFE 141 DEAFE 141 176 QY 141 1 1 1 1 D 164 SYAFNRVPSLMRLDLGELKKLEYISEGAFEGLFNLKYLNLGMCNIKDMPNLTPLVGLE 221	QY 177 QLSLDHNLLDHIAECTFADLOKLARLDLTSNRLOKL 212 CY 1 1 1 1 DD 222 ELEWSGNHFPEIRPGSFHGLSSLKKLWWNSQVSLIERNAFDGLASLVELNLAHNNLSSL 281	QY 213 PPDDIFARSQASALTATPFAPPLSFSFGGNPLHCNCELLMLRLERDDDLETCG 266 Q 1 : : : : : : 1 D 282 PHD-LFTPLRYLVELHLHHNPWNCDCDILMLAWMLREYIPTNSTCCGRCH 330	QY 267 SPGGLKGRYFWHVREEEFVCEPPLITQHTHKLLULEGQAATLKCKAIGDPSPLIHWVAPD 326 : :: !: : : !:: !:: !:: !:: !:: !::::::::::::::::::::::::::::::::::::	Qy327DRLVGNSS RTAYYDNGTLDFFITTSQDSGAFTCIAANAGC - EATAMVEVSIVQLPH381Db389GTVLSHASRHPRISVLNGTLNFSHVLLSDTGVTCMVTNVGGNSNASAYLNVSTAEL-N47Qy382LSNSTSRTAPPKSRLSDITGSSKTSRGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG
DR Pfam; PF00560; LRRT; 1. DR Pfam; PF01465; LRRCT; 1. DR PRINT: PP00469; LGRUTCHRPT. DR RANT; SN00409; IG. 1. DR SMART; SN00409; IG. 1. DR SMART; SN00409; IG. 1. DR SMART; SN00010; LRRCT; 1. DR SMART; SN0010; LRRCT, 2. OY 21 CPRYCVCQNLSESLGTLFVPPDIDRRTVELLGONFILHISRODFANNTGLVD DD 45 CPSVCSCNOFSKVVCTRRGLSEVPOGTPNIRKTVLIMENNIQMICGATA 140 DD 45 CPSVCSCNOFSKVVCTRRGLSEVPOGTPNIRKTVLIMENNIQMICGATA 140 DD 45 CPSVCSCNOFSKVVCTRRGLSEVPOGTPNIRKTVLIPEGEDTLAGLWILOHLINNNOLGGTA 140 DD 41 LLSRNTISHIDFSFLDLESLRSLHLDSNRLPSIGEDTLAGLWILOHLINNNOLGGTA 140 DD 103 LQLGRNSTROTESCHARLOTESLRSLHLDSNRLPSIGEDTLAGUNICHTINNNOLGGTA 140 DD 103 LQLGRNSTROTESCHARLOTESLRSLHLENNULTUPEGEDTLAGUNICHTINNNOLGGTA 140 DD 103 LQLGRNSTROTESCHARLOTESLRSLHLENNULTUPEGEDTLAGUNICHTINNNOLGGTA 140 DD 103 LQLGRNSTROTESCHARLOTESLRSLHLENNULTUPEGEDTLAGUNICHTINNNOLGGTA 140 DD 103 LQLGRNSTROTESCHARLOTESLRSLHLENNULTUPEGEDTLAGUNICHTINLICHTINNOLGGTA 140 DD 103 LQLGRNSTROTESCHARLOTESLRSLHLENNULTUPEGEDTLAGUNICHTINECHTINNNOLGGTA 140 DD 103 LQLGRNSTROTESCHARLOTESCHA	QY 217 IFARSQASALTATPFAPPLSFSFGGNPLHCNCELLMLRRLERDDDLETCGSPGG 270 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .1 .280 LFTPLRYLVELHLHHNPWNCDCDILMLAWMLREYIPTNSTCCGRCHAPMH 329	QY 271 LKGRYFWHVREEEFVCEPPLITQHTHKLULEGQAATLKCKAIGDBSPLIHWVAPDDRLV 330 :: : : :: : : ::: :: 1 :: :: : : ::: ::: ::: 330 MRGRYLVEVDQAFQCSAPFIMDAPRDLNISEDRMAELKCFTPPMSSVKMLLPNGTVL 387	QY 331 GNSSRTAVYDNGTLDIFITTSQDSGAFTCIAANAAGEATAMVEVSIVQLPHLS 383 :: :	QY 384 NSTERTAPPKSRLSDITGSSKTSRGGGGGGGGGGGFPPKSPPERAVLVSEVTTTSALVKMSVS 443 I I I Db 448 FFTTVTV460	Qy 444 KSAPRVKMYQLQYNCSDDEVLIYRMIPASNKAFVVNNLVSGTGYDLCVLAMWDDTATTLT 503 1 1 </td <td>QY 504 ATNIVGCAQFFTKADYPQCOSMHSQILGGTMILVIGGIIVATLLVFIVILMVRY 557 I :</td> <td>QY 558 KV-CNHEAPSKMAAAVSNVYSQTNGAOPPPPSSAPAGAPPQG 598 : : : : : : : : : :</td> <td>RESULT 15 09HBW1 DARELIMINARY, PRT, 653 AA. TD 09HBW1 PRELIMINARY, PRT, 653 AA. AC 09HBW1, PRELIMINARY, PRT, 653 AA. DT 01-MAR-2001 (TrEMBLrel. 16, Created) DT 01-OCT-2001 (TrEMBLrel. 19, Last sequence update) DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update) (TrEMBLrel</td>	QY 504 ATNIVGCAQFFTKADYPQCOSMHSQILGGTMILVIGGIIVATLLVFIVILMVRY 557 I :	QY 558 KV-CNHEAPSKMAAAVSNVYSQTNGAOPPPPSSAPAGAPPQG 598 : : : : : : : : : :	RESULT 15 09HBW1 DARELIMINARY, PRT, 653 AA. TD 09HBW1 PRELIMINARY, PRT, 653 AA. AC 09HBW1, PRELIMINARY, PRT, 653 AA. DT 01-MAR-2001 (TrEMBLrel. 16, Created) DT 01-OCT-2001 (TrEMBLrel. 19, Last sequence update) DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update) (TrEMBLrel

Db 189 TSTTVLIQTTRVPKQVAVPATDTTDKMQTSLDEVMKTTKIII--GCFVAVTLLAAAMLIV 546 Qy 556 RYKV-CNHEAPSKMAAAVSNVYSQTNGAQPPPSSAPAGAPPOG 598

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